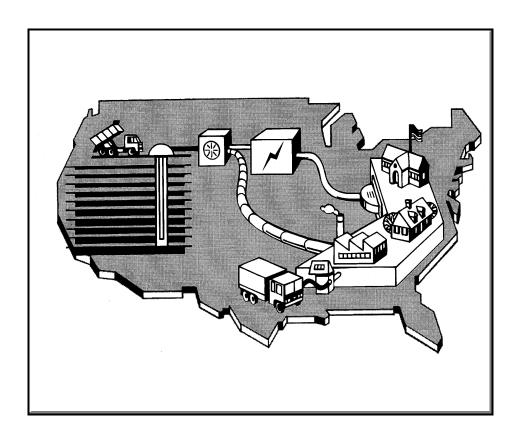


Landfill Gas-to-Energy Project Opportunities

Landfill Profiles for the State of North Carolina





EPA Landfill Methane Outreach Program



The EPA Landfill Methane Outreach Program, a key component of the United State's *Climate Change Action Plan*, encourages the use of landfill gas (LFG) as an energy resource. EPA assists utilities,

municipal and private landfill owners and operators, tribes, and state agencies in reducing methane emissions from landfills through the development of profitable landfill energy recovery projects. Methane captured from landfills can be transformed into a cost-effective fuel source for electricity, heat, boiler and vehicular fuel, or sale to a pipeline. EPA estimates there are approximately 200 landfill methane recovery projects in the U.S. and that up to 750 landfills could install economically viable landfill energy projects.

The Landfill Methane Outreach Program includes five important components: the State Ally, Energy Ally, Industry Ally, Community Partner, and Endorser programs. EPA establishes separate alliances with state agencies, energy providers (including investor-owned, municipal and other public power utilities and cooperatives), key trade and public sector associations, members of the landfill gas development industry (including developers, engineers, equipment vendors, and others) and local communities, municipalities and landfill owner/operators through a Memorandum of Understanding (MOU). By signing the MOU, each Ally/Partner acknowledges a shared commitment to the promotion of landfill gas-to-energy recovery at solid waste landfills, recognizes that the widespread use of landfill gas will reduce emissions of methane and other gases, and commits to undertake activities to enhance development of this resource. In return, EPA agrees to provide landfill gas-to-energy project assistance and public recognition of the Allies' and Partners' participation in the program.

Introduction

Since 1994 the U.S. EPA's Landfill Methane Outreach Program (LMOP) has participated in an ongoing effort to gather information on Municipal Solid Waste landfills (MSW). A key component of the LMOP is to provide MSW landfill owners and operators, project developers, utilities, and other potential project participants with information on MSW landfills that may offer attractive energy development opportunities. This document presents state specific landfill information, hereinafter referred to as the landfill profiles. These profiles are useful to evaluate the potential for developing landfill gas-toenergy projects (LFGTE). EPA assembled this information from state and local sources as well as various national solid waste publications, landfill owners and operators, and project developers.

The EPA has prepared a separate document to describe the methodology used to develop the state-specific landfill profiles and estimate the benefits of using LFGTE as an energy source. The document, Landfill Gas-to-Energy Project Opportunities, Background Information on Landfill Profiles, contains background information on gas collection and use, describes the data fields according to the five sections listed on the landfill profiles, and where applicable, illustrates calculations and default values used to derive estimates. EPA strongly recommends that users read the document prior to using the landfill profiles. Users can obtain the document by calling the LMOP hotline at 1-888-STAR-YES.

Data Sources

- EPA-ORD Landfill Gas Utilization-Survey (Thorneloe, 1997)
- Directory and Atlas of Solid Waste Disposal Facilities (SWA, 1994)
- Implementation Guide for Landfill Gas Recovery Projects in the Northeast (SCS, 1994)
- Landfill Gas-to-Energy 1994-1995 Activity Report (SWT, 1994)
- Methane Recovery from Landfill Yearbook (GAA, 1994)
- · Project developers, landfill owners, and operators
- · State and local records
- · Survey of Landfill Gas Generation Potential (EPRI, 1992)
- . U.S. Landfill Directory (SWANA, 1992)

Landfill Classification

To facilitate the use of available landfill information, EPA has categorized the landfills into five categories: Current Project, ¹ Candidate Project, Shutdown, Other, and Unknown waste-in-place (WIP). These categories are based on the status of the landfill's LFGTE project(s) and WIP. The generation of methane is a function of many factors, the most critical being the amount of waste-in-place and the number of years the waste has been in the landfill. Peak methane generation occurs soon after closure; therefore, the longer the landfill has been closed, the less attractive it becomes for methane recovery. Based on the general timing of peak methane generation, EPA assumes that landfills that ceased accepting waste prior to 1993 have a low probability of generating enough methane to make a gas recovery project economical. Consequently, landfills need to be operating in 1993 to be considered as having a Candidate Project.

Landfill Categorizes

Current Project:

 Landfill with operational LFGTE project or landfill with LFGTE project under construction.

Candidate Project:

- Landfill with a potential or planned LFGTE utilization project; or
- Landfill is currently operating or closed after 1993; and has more than 1,000,000 tons of municipal solid waste-inplace.²

Shutdown:

· Landfill with shutdown LFGTE project.

Other

 Landfill has less than 1,000,000 tons of municipal solid waste-in-place with no current or planned LFGTE project.

Unknown WIP:

 Landfill with insufficient data to determine the waste-inplace

State Summary

State-specific landfill profile information is summarized in three exhibits. Exhibit 1 presents a summary of the state-specific potential for LFG utilization energy by landfill category. Exhibit 2 summarizes the emissions avoided by fossil fuel displacement for electricity generation and direct use projects. Exhibit 3 presents an index of the state-specific MSW landfills, referenced by category, landfill name and general characteristics.

² By modeling the relationship between WIP and methane generation, a cut-off of 1,000,000 tons of WIP was established; landfills having at least 1,000,000 tons of WIP are considered candidate landfills.



¹ Current projects illustrate the wide range of successful project development options.

Exhibit 1: North Carolina MSW Landfill Summary

Category	No. of	Est. Capacity Potential		Est. CH4	Methane F		•	CO2 Equivalent of CH4		
	Landfills	Electricity (MW)	Gas Capacity (mmBtu/hr)	Generation (mmscf/d)	(ton:	s/yr)	Reduction (tons/yr)			
					Potential	Current	Potential	Current		
Current	10	41	414	13	76,487	37,388	1,606,225	785,142		
Candidate	36	95	952	30	176,063	0	3,697,313	0		
Shutdown	1	0	1	0	102	0	2,146	0		
Other	74	51	504	16	93,186	0	1,956,912	0		
Unknown WIP	1									
Total	122	187	1,870	60	345,838	37,388	7,262,596	785,142		

Exhibit 2: Potential North Carolina Emissions Avoided by Fossil Fuel Displacement

Category		Electricity Generation Project						Direct Use Project					
	C	CO2 (tons/yr)		SO2 (tons/yr)		CO2 (tons/yr)			SO2 (tons/yr)				
	Coal	Oil	Natural Gas	Coal	Oil	Natural Gas	Coal	Oil	Natural Gas	Coal	Oil	Natural Gas	
Current	326,760	268,190	180,335	2,065	1,726	0	230,330	189,045	127,116	2,096	1,102	1	
Candidate	750,601	616,060	414,247	4,744	3,966	0	530,188	435,154	292,604	4,824	2,536	3	
Shutdown	789	648	436	5	4	0	308	253	170	3	2	0	
Other	398,585	327,139	219,974	2,520	2,106	0	280,619	230,320	154,870	2,554	1,342	1	
Unknown WIP													
Total	1,476,736	1,212,037	814,991	9,334	7,802	0	1,041,445	854,771	574,759	9,476	4,980	6	

Category	Landfill Name		WIP		Landfill	LFG Collected		Status of LFGTE
		<2.5 million tons	2.5 to 4 million tons	>4 million tons	Operating in 1998		Utilization Project	Project
Current	Blackburn LF	✓			✓			Construction
Current	Buncombe County LF		✓				✓	Operational
Current	City of Greensboro LF			✓	✓		✓	Operational
Current	City of Winston-Salem LF			✓	✓	✓	✓	Operational
Current	CMS Landfill V		✓		✓			Construction
Current	Cumberland County LF		✓		✓		✓	Operational
Current	Henderson County LF	✓				✓	✓	Operational
Current	Pitt County LF		✓				✓	Operational
Current	Wake County Landfill						✓	Operational
Current	Wilder's Grove Landfill			✓	✓	✓	✓	Operational
Candidate	Alamance County LF	✓						Unknown
Candidate	Avery County LF	✓						Planned
Candidate	Brunswick County LF	✓			✓			Unknown
Candidate	Cabarrus County LF	✓			✓			Unknown
Candidate	Caldwell County LF	✓						Unknown
Candidate	City of Albemarle LF	✓			✓			Unknown
Candidate	City of Durham LF			✓				Unknown
Candidate	City of High Point LF	✓						Unknown
Candidate	Cleveland County LF	✓			✓			Unknown
Candidate	Columbus County, ARS	✓						Unknown
Candidate	Craven County LF	✓			✓			Unknown
Candidate	Edgecombe County LF	✓			✓			Unknown
Candidate	Gaston County LF	✓			✓			Unknown
Candidate	Harnett County LF	✓			✓			Unknown
Candidate	High Point-Guilford County		✓			✓		Planned
Candidate	Iredell County LF	✓			✓			Planned
Candidate	Johnston County LF	✓						Potential
Candidate	Lee County LF	✓			✓			Unknown
Candidate	Lenoir County LF	✓			✓			Unknown
Candidate	Mecklenburg County LF		✓					Unknown
Candidate	Nash County LF	✓						Unknown
Candidate	New Hanover County LF	✓			✓			Potential
Candidate	Newton LF	✓						Planned
Candidate	Orange Regional LF	✓						Planned
Candidate	Piedmont SLF	✓			✓			Planned
Candidate	Randolph County LF	✓						Unknown
Candidate	Robeson County LF	✓			✓			Unknown
Candidate	Rockingham County LF	✓						Unknown
Candidate	Sampson County LF	✓						Unknown

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Category	Landfill Name		WIP		Landfill	LFG Collected		Status of LFGTE
		<2.5 million tons	2.5 to 4 million tons	>4 million ton	S 1998		Utilization Project	Project
Candidate	Surry County LF 1	✓			✓			Unknown
Candidate	Union County LF	✓			✓			Potential
Candidate	US Marine Corps Camp Lejeune	✓						Unknown
Candidate	Wake County LF 2	✓			✓			Unknown
Candidate	Wayne County LF		✓		✓			Unknown
Candidate	Wilson County LF		✓					Unknown
Candidate	Yancey/Mitchell County LF	✓						Planned
Shutdown	Rowland LF	✓				✓		Shutdown
Other	Alexander County	✓						Unknown
Other	Alleghany County LF	✓			✓			Unknown
Other	Anderson Creek LF Harnett County	✓						Unknown
Other	Anson County LF	✓						Unknown
Other	Ashe County	✓			✓			Unknown
Other	Austin Quarter SWM Facility	✓			✓			Unknown
Other	Beaufort County LF	✓						Unknown
Other	Bertie County LF	✓						Unknown
Other	Bladen County LF	✓						Unknown
Other	Burke County LF	✓			✓			Unknown
Other	Canton LF-Haywood County	V			✓			Unknown
Other	Carteret County LF	✓						Unknown
Other	Caswell County LF	✓						Unknown
Other	Chatham County LF	✓			✓			Unknown
Other	Cherokee County	✓			✓			Unknown
Other	Clay County LF	✓						Unknown
Other	Cliffside South Rutherford County LF	✓						Unknown
Other	CRSWMA-Interim Regional LF	✓			✓			Unknown
Other	Currituck County LF	✓						Unknown
Other	Davidson County LF		✓		✓			Unknown
Other	Davie County LF	✓			✓			Unknown
Other	Duplin County LF	✓						Unknown
Other	East Carolina Regional LF	✓			✓			Unknown
Other	East Lake LF-Dare County	✓						Unknown
Other	Franklin County LF	✓						Unknown
Other	Graham County LF	✓			✓			Unknown
Other	Granville County 2	✓						Unknown
Other	Granville County LF 1	V						Unknown
Other	Greene County	✓			✓			Unknown
Other	Halifax County LF	✓			✓			Unknown
Other	Haywood County LF	✓						Unknown

Category	Landfill Name		WIP		Landfill	LFG Collected		Status of LFGTE
		<2.5 million tons	2.5 to 4 million tons	>4 million tons	Operating in 1998		Utilization Project	Project
Other	Haywood County White Oak LF	✓						Unknown
Other	Hertford County LF	✓						Unknown
Other	Highlands LF-Macon County	✓						Unknown
Other	Hoke County LF	✓						Unknown
Other	Iredell County SLF	✓			✓			Unknown
Other	Jackson County	✓						Unknown
Other	Jones County LF	✓			✓			Unknown
Other	Lincoln County	✓			✓			Unknown
Other	Macon County LF	✓			✓			Unknown
Other	Macon County LF Franklin	✓						Unknown
Other	Madison County LF 1	✓						Unknown
Other	Madison County LF 2	✓			✓			Unknown
Other	McDowell County LF	✓						Unknown
Other	Montgomery County LF	✓						Unknown
Other	Moore County LF	✓						Unknown
Other	Northampton County LF	✓			✓			Unknown
Other	Onslow County LF	✓						Unknown
Other	Pamlico County LF	✓						Unknown
Other	Pasquotank County LF	✓			✓			Unknown
Other	Pender County LF	✓						Unknown
Other	Perquimans Chowan Gates Regional L	✓						Unknown
Other	Polk County LF	✓			✓			Unknown
Other	Richmond County LF	✓			✓			Unknown
Other	Roaring River LF-Wilkes County LF	✓						Unknown
Other	Rowan County LF	✓						Unknown
Other	Roxboro LF-Person County	✓						Unknown
Other	Rutherford County LF	✓			✓			Unknown
Other	Scotland County LF	✓			✓			Unknown
Other	Sorrells SLF	✓						Unknown
Other	Stokes County LF	✓			✓			Unknown
Other	Surry County LF 2	✓			✓			Unknown
Other	Swain County LF	✓						Unknown
Other	Thomasville LF-Davidson County	✓			✓			Unknown
Other	Transylvania County LF	✓			✓			Unknown
Other	Transylvania County SLF	✓			✓			Unknown
Other	US Army Fort Bragg	✓			✓			Unknown
Other	Vance County LF	✓						Unknown
Other	Wake County LF 1	✓			✓			Unknown
Other	Warren County LF	✓						Unknown

Category	Landfill Name		WIP			LFG Collected	LFG	Status of LFGTE
		<2.5 million tons	2.5 to 4 million tons	>4 million tons	Operating in 1998		Utilization Project	Project
Other	Washington County LF	✓			✓			Unknown
Other	Western Carolina University	✓						Unknown
Other	Wilkes County LF 1	✓						Unknown
Other	Wilkes County LF 2	✓						Unknown
Unknown WIP	York Road Landfill							Unknown

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Alamance County LF Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: Alamance County Annual Acceptance Rate (tons): 108,476 Landfill Owner Type: Public Year Annual Acceptance Rate Reported: 1998 Alternative Landfill Name: Swepsonville Design Capacity (tons): City: Burlington Acres Currently Landfilled (acres): County: Alamance Average Depth (feet): State: NC 1998 Waste-in-Place (tons): 2,278,000 Year Open: 1971 1998 Waste-in-Place (tons): 2,278,000 Year Closed: 1994 **B. LANDFILL GAS COLLECTION** 1.00 Estimated Methane Generation (mmscf/d): LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Unknown Utilization System Type: Unknown Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) Estimated Potential Capacity: 3 31 Current Capacity: Planned Capacity:

Utilities in County:

Duke Power Co; Nantahala Power & Light Co; Piedmont Electric Member Corp; Randolph Electric M

D. ENVIRONMENTAL BENEFITS OF UTILIZATION										
	Pote	ential	Current							
Methane Reduction (tons/yr):		5,785		0						
CO2 Equivalent of CH4 Reduction (tons/yr):		121,491		0						
Emissions Avoided by Fossil Fuel Displacement:	Electricity Gener	ration Project	Direct Use Project							
	CO2 (tons/yr) SO2 (tons/yr)		CO2 (tons/yr)	SO2 (tons/yr)						
Coal:	24,468	155	17,422	159						
Fuel Oil:	20,082	129	14,299	83						
Natural Gas:	13,503	0	9,615	0						

E. CONTACT INFORMATION

Landfill Owner

		1
Contact Name:	Robert Mace	Alvin Cagle
Mailing Address:	Route 5, Box 267	209 North Graham Hopedale
Phone Number: Fax Number:	919-578-4200	919-578-2769

^{*} Itallicized indicates values estimated by EPA.

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Landfill Operator

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			Avery County	LF		Landfill Category	: Candidate		
		A. Gl	ENERAL LANDFILL I		ION	,			
Landfill Owner:	Avery (County	A	nnual Accept	ance Rate (t	ons):	3,560		
Landfill Owner Type:	-			_		tate Reported:	1993		
Alternative Landfill N				esign Capaci	-				
City:	Spruce	Pine		Acres Currently Landfilled (acres):					
County:	Avery			verage Depth	_				
State:	NC			aste-in-Place			182,875		
Year Open:	1972			998 Waste-in):	182,875		
Year Closed:	1993			y o maste in	Titlee (rons)	,	102,070		
		F	. LANDFILL GAS CO	LLECTION					
Estimated Methane G	eneration (mmsc	f/d):		0.06					
LFG Collection Syste		•							
Current LFG Collecte									
Collection and Treatm		uired Under NSP	S/EG:	No					
			C. LANDFILL GAS UT	ILIZATION					
Current Utilization:									
Utilization Syste	m Status:	Planned							
Utilization Syste		Unknown							
Utilization Syste		Chrilown							
Electric Utility P									
Natural Gas Prov									
Energy Purchase	I(S):								
Capacity:		Electricit	y Generation Project (MV	W) ()R	Direct Use Project (mmBtu/h	nr)		
Estimated Potent	tial Capacity:			0			2		
Current Capacity	':								
Planned Capacity	y:								
Utilities in County:		Mountain El	ectric Coop Inc; Tennesse	ee Valley Au	hority				
,			ONMENTAL BENEFI						
		D. ETVIII			AZATION	Cumont			
Madama Dadaadaa (4			Pote	ential	274	Current	0		
Methane Reduction (t	- ·	()			374		0		
CO2 Equivalent of CI	14 Reduction (to	ns/yr):			7,848		0		
Emissions Avoided by	Fossil Fuel Dist	olacement:	Electricity Gene	ration Projec	t	Direct Use Projec	ct		
	1		CO2 (tons/yr)	SO2 (tor	I		O2 (tons/yr)		
		Coal:	1,579	,	10	1,125	10		
		Fuel Oil:	1,296		8	924	5		
	N	atural Gas:	871		0	621	0		
			E. CONTACT INFOR	MATION	<u>'</u>				
		Landfill (Owner			Landfill Operator			
Contact Name:	Randall Fletch	er		Dallas	Cox				
Mailing Address:	PO Box 54			PO Re	ox 640				
	2020101				0.0				
Phone Number:	704 722 5196			704.7	cs 0201				
	704-733-5186			/04-7	65-8201				
Fax Number:									
	1								

* Itallicized indicates values estimated by EPA.

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Blackburn LF Landfill Category: Current A. GENERAL LANDFILL INFORMATION Landfill Owner: Catawba County Annual Acceptance Rate (tons): 144,450 Landfill Owner Type: Public Year Annual Acceptance Rate Reported: 1993 Alternative Landfill Name: Catawba County LF Design Capacity (tons): City: Newton Acres Currently Landfilled (acres): County: Catawba Average Depth (feet): State: NC Waste-in-Place (tons): 2,168,232 Year Open: 1981 1998 Waste-in-Place (tons): 2,439,261 Year Closed: 2007 **B. LANDFILL GAS COLLECTION** 1.04 Estimated Methane Generation (mmscf/d): LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Construction Utilization System Type: Reciprocating Engine Utilization System Start Year: 1999 Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Duke Power Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) Estimated Potential Capacity: 3 33 Current Capacity: Planned Capacity: 4.8 Crescent Elec Mem Corp; Duke Power Co; Maiden Electric Utility; Newton Electric Dept; Rutherfor Utilities in County: D. ENVIRONMENTAL BENEFITS OF UTILIZATION Potential Current Methane Reduction (tons/yr): 6.024 0 CO2 Equivalent of CH4 Reduction (tons/yr): 126,500 0 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr) Coal: 26,046 165 18,140 165 Fuel Oil: 21,378 138 14,888 87 Natural Gas: 0 10.011 0 14.375 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: Dick Wyatt, City Engineer Tommy London Mailing Address: PO Box 389 PO Box 389 Phone Number: 704-465-8263 704-465-8263

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Brunswick County LF Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: Annual Acceptance Rate (tons): 76,005 Landfill Owner Type: Private Year Annual Acceptance Rate Reported: 1993 Alternative Landfill Name: Design Capacity (tons): City: Supply Acres Currently Landfilled (acres): County: Brunswick Average Depth (feet): State: NC Waste-in-Place (tons): 1.063.573 Year Open: 1983 1998 Waste-in-Place (tons): 1,215,512 Year Closed: 1999 **B. LANDFILL GAS COLLECTION** Estimated Methane Generation (mmscf/d): 0.73 LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Unknown Utilization System Type: Unknown Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) 2 Estimated Potential Capacity: 23 Current Capacity: Planned Capacity: Brunswick Electric Member Corp; Carolina Power & Light Company; Southeastern Power Admin; So Utilities in County: D. ENVIRONMENTAL BENEFITS OF UTILIZATION Potential Current Methane Reduction (tons/yr): 4,214 0 CO2 Equivalent of CH4 Reduction (tons/yr): 88,496 0 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr) Coal: 18,153 115 12,690 116 Fuel Oil: 14,899 96 10,416 61 Natural Gas: 10.019 0 0 7,004 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: William Yeltin Darry Somerset Mailing Address: PO Box 249 PO Box 249 PO Box 249

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919-253-4347



Phone Number:

Fax Number:

919-253-4331

			Buncombe Cou	nty LF		Landfill Cat	egory: Current		
		A. G	ENERAL LANDFILL	INFORMAT	TON				
Landfill Owner:			1	Annual Accep	tance Rate	(tons):	96,753		
Landfill Owner Type:	Public		•	Year Annual A	Acceptance	Rate Reported:	1993		
Alternative Landfill Na	me:		1	Design Capac	ity (tons):				
City:	Ashevi	lle		Acres Current	ly Landfille	ed (acres):	80		
County:	Buncon	nbe		Average Dept	h (feet):				
State:	NC		7	Waste-in-Plac	e (tons):		3,446,544		
Year Open:	1971			1998 Waste-in	ı-Place (ton	us):	3,877,362		
Year Closed:	1997								
		J	B. LANDFILL GAS CO	OLLECTION	1				
Estimated Methane Ger	neration (mmsc	f/d):		1.41					
LFG Collection System	Status:								
Current LFG Collected	(mmscf/d):			1.4					
Collection and Treatme	nt System Requ			No					
			C. LANDFILL GAS U	FILIZATION	N				
Current Utilization:									
Utilization System	Status:	Operational							
Utilization System	Туре:	Reciprocatin	g Engine						
Utilization System	Start Year:	1998							
Electric Utility Pro	ovider(s):								
Natural Gas Provid	der(s):								
Energy Purchaser(s):	Metropolitar	Sewer District POTW						
Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)							nBtu/hr)		
Estimated Potentic	al Capacity:			4			44		
Current Capacity:				·			29		
Planned Capacity:									
Utilities in County:		Carolina Pov	wer & Light Company: F	French Broad	 Elec Memb	er Corp; Haywood Electri	c Member Cor		
,			RONMENTAL BENEF						
		2,21,,12		tential		Curre	ent		
 Methane Reduction (tor	as/vr):		10	iennai	8,150	Curre	5,396		
CO2 Equivalent of CH4	- ·	nchr).			171,158		113,320		
CO2 Equivalent of CH4	+ Reduction (tot	rts/y/).			171,136		115,520		
Emissions Avoided by F	Fossil Fuel Disp	olacement:	Electricity Gen	eration Proje	ct	Direct Use	Project		
			CO2 (tons/yr)	SO2 (to	ns/yr)	CO2 (tons/yr)	SO2 (tons/yr)		
		Coal:	34,728		220	24,544	223		
		Fuel Oil:	28,503		184	20,145	117		
	3.7								
	IV	atural Gas:	19,166		0	13,546	0		
		Landfill	E. CONTACT INFO	RMATION		Landfill Operator			
Contact Name:	Bob Hunter			Moss	in Waddy				
						Marvin Waddy			
Mailing Address:	30 Valley Stree	et				County Courthouse			
Phone Number:	704-255-5066			704-255-5066					
	704 233 3000			/04-2	0006-662				
Fax Number:									
* Itallicized indicates va	ılues estimated	by EPA.	De	cember 5, 199	98	State: NC	Page: 5		

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CMS Landfill V Landfill Category: Current A. GENERAL LANDFILL INFORMATION Landfill Owner: BFI Annual Acceptance Rate (tons): 536,527 Landfill Owner Type: Private Year Annual Acceptance Rate Reported: 1993 Alternative Landfill Name: Charlotte Motor Speedway LF Design Capacity (tons): City: Concord Acres Currently Landfilled (acres): County: Cabarrus Average Depth (feet): State: NC Waste-in-Place (tons): 2,244,231 Year Open: 1992 1998 Waste-in-Place (tons): 3,141,924 Year Closed: **B. LANDFILL GAS COLLECTION** Estimated Methane Generation (mmscf/d): 1 22 LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Construction Utilization System Type: Reciprocating Engine Utilization System Start Year: 1999 Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): City of Concord Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) Estimated Potential Capacity: 4 38 Current Capacity: Planned Capacity: 1.0 Concord, City of; Crescent Elec Mem Corp; Duke Power Co; Union Electric Membership Corp Utilities in County: D. ENVIRONMENTAL BENEFITS OF UTILIZATION Potential Current Methane Reduction (tons/yr): 7.063 0 CO2 Equivalent of CH4 Reduction (tons/yr): 148.321 0 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr) 29,993 Coal: 190 21,269 194 Fuel Oil: 102 24,617 159 17,457 Natural Gas: 0 0 16.553 11,738 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: Harold Watson Harold Watson Mailing Address: 5105 Morehead Drive 5105 Morehead Drive Phone Number: 704-782-2004 704-782-2004

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Cabarrus County LF Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: Cabarrus County Annual Acceptance Rate (tons): 61,248 Landfill Owner Type: Public Year Annual Acceptance Rate Reported: 1993 Alternative Landfill Name: Design Capacity (tons): City: Concord Acres Currently Landfilled (acres): County: Cabarrus Average Depth (feet): State: NC Waste-in-Place (tons): 1,368,822 1974 Year Open: 1998 Waste-in-Place (tons): 1,487,850 Year Closed: 2008 **B. LANDFILL GAS COLLECTION** Estimated Methane Generation (mmscf/d): 0.80 LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Unknown Utilization System Type: Unknown Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) Estimated Potential Capacity: 3 25 Current Capacity: Planned Capacity: Concord, City of; Crescent Elec Mem Corp; Duke Power Co; Union Electric Membership Corp Utilities in County: D. ENVIRONMENTAL BENEFITS OF UTILIZATION Potential Current Methane Reduction (tons/yr): 4,617 0 CO2 Equivalent of CH4 Reduction (tons/yr): 96,955 0 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr) Coal: 19,732 125 13,903 127 Fuel Oil: 16,195 104 11,411 67 Natural Gas: 0 0 10.890 7,673 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: Bob Farris **Bob Farris** Mailing Address: 715 Cabarrus Avenue 715 Cabarrus Avenue Phone Number: 704-782-3811 704-782-3811

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Caldwell County LF Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: Caldwell County Annual Acceptance Rate (tons): 68,030 Landfill Owner Type: Public Year Annual Acceptance Rate Reported: 1993 Alternative Landfill Name: Design Capacity (tons): City: Hudson Acres Currently Landfilled (acres): County: Caldwell Average Depth (feet): State: NC Waste-in-Place (tons): 1,214,795 1975 Year Open: 1998 Waste-in-Place (tons): 1,214,796 Year Closed: 1994 **B. LANDFILL GAS COLLECTION** Estimated Methane Generation (mmscf/d): 0.73 LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Unknown Utilization System Type: Unknown Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) 2 Estimated Potential Capacity: 23 Current Capacity: Planned Capacity: Blue Ridge Elec Member Corp; Carolina Power & Light Company; Duke Power Co; Granite Falls El Utilities in County: D. ENVIRONMENTAL BENEFITS OF UTILIZATION Potential Current Methane Reduction (tons/yr): 4,213 0 CO2 Equivalent of CH4 Reduction (tons/yr): 88,475 0 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr) Coal: 18,153 115 12,687 115 Fuel Oil: 14,899 96 10,413 61 Natural Gas: 10.019 0 0 7,002 E. CONTACT INFORMATION Landfill Owner Landfill Operator

Contact Name: Floyd Ingle Floyd Ingle PO Box 2200 PO Box 2200

Phone Number: 704-728-2866 704-728-2866

Fax Number: Landfill Owner Landfill Operator

Floyd Ingle PO Box 2200

PO Box 2200

704-728-2866

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City of Albemarle LF Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: City of Albemarle Annual Acceptance Rate (tons): 60,429 Landfill Owner Type: Public Year Annual Acceptance Rate Reported: 1998 Alternative Landfill Name: Design Capacity (tons): City: Albemarle Acres Currently Landfilled (acres): County: Stanly Average Depth (feet): State: NC Waste-in-Place (tons): 1,523,736 Year Open: 1973 1998 Waste-in-Place (tons): 1,650,714 Year Closed: 2007 **B. LANDFILL GAS COLLECTION** Estimated Methane Generation (mmscf/d): 0.84 LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Unknown Utilization System Type: Unknown Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) Estimated Potential Capacity: 3 26 Current Capacity: Planned Capacity: Albemarle Elec Dis Syst; Duke Power Co; Pee Dee Electric Member Corp; Union Electric Membersh Utilities in County: D. ENVIRONMENTAL BENEFITS OF UTILIZATION Potential Current Methane Reduction (tons/yr): 4,858 0 CO2 Equivalent of CH4 Reduction (tons/yr): 102.012 0 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr) Coal: 20,521 130 14,628 133 Fuel Oil: 70 16,843 108 12,006 Natural Gas: 0 0 11.325 8,073 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: James Coble, Public Works Director James Coble Mailing Address: PO Box 190 PO Box 190

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704-982-0131



Phone Number:

Fax Number:

704-982-0131

Candidate City of Durham LF Landfill Category: A. GENERAL LANDFILL INFORMATION Landfill Owner: Annual Acceptance Rate (tons): 206,575 Landfill Owner Type: Public Year Annual Acceptance Rate Reported: 1993 Durham Township LF Alternative Landfill Name: Design Capacity (tons): City: **Durham City** Acres Currently Landfilled (acres): County: Durham Average Depth (feet): State: NC Waste-in-Place (tons): 4,957,416 Year Open: 1973 1998 Waste-in-Place (tons): 4,957,416 Year Closed: 1996 **B. LANDFILL GAS COLLECTION** 1.69 Estimated Methane Generation (mmscf/d): LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Unknown Unknown Utilization System Type: Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) Estimated Potential Capacity: 5 53 **Current Capacity:** Planned Capacity: Duke Power Co; Piedmont Electric Member Corp; Southeastern Power Admin; Wake Electric Memb Utilities in County:

D. ENVIRONMENTAL BENEFITS OF UTILIZATION									
	Pote	ential	Current						
Methane Reduction (tons/yr):		9,748		0					
CO2 Equivalent of CH4 Reduction (tons/yr):		204,700		0					
Emissions Avoided by Fossil Fuel Displacement:	Electricity Gener	ration Project	Direct Use Project						
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)					
Coal:	41,832	264	29,354	267					
Fuel Oil:	34,334	221	24,092	140					
Natural Gas:	23,086	0	16,200	0					
	E. CONTACT INFOR	MATION							

	2. CONTACT INFORMATION	
Landfill Ow	ner	

		1
Contact Name:	Nancy Newell	Tom Bastable
Mailing Address:	101 City Hall Plaza	101 City Hall Plaza
Phone Number: Fax Number:	919-560-4185	919-560-4185

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Landfill Operator

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			City of Greensboro	o LF		Landfill Category.	Current
		A. G	ENERAL LANDFILL IN	FORMAT	ION		
Landfill Owner:	City of	Greensboro	An	nual Accept	ance Rate (tons	s):	285,068
Landfill Owner Type:	Public		Yes	ar Annual A	cceptance Rate	e Reported:	1993
Alternative Landfill N	ame:		Des	sign Capaci	ty (tons):		
City:	Greens	boro	Acı	res Currentl	y Landfilled (a	cres):	272
County:	Guilfor	rd	Av	erage Depth	(feet):		85
State:	NC		Wa	ste-in-Place	e (tons):		7,616,175
Year Open:	1972		199	98 Waste-in	-Place (tons):		8,225,469
Year Closed:	2013						
		J	B. LANDFILL GAS COL	LECTION			
Estimated Methane Ge	eneration (mmsc	f/d):		2.52			
LFG Collection System	n Status:						
Current LFG Collected	d (mmscf/d):						
Collection and Treatm		uired Under NSF	S/EG:	Yes			
			C. LANDFILL GAS UTII	LIZATION			
Current Utilization:							
Utilization Syster	n Status:	Operational					
Utilization System		Medium Btu					
Utilization System	• •	1997					
Electric Utility Pr		Duke Energy	7				
Natural Gas Prov		Piedmont Na					
Energy Purchaser		1 ledinont 14	iturar Gas				
Energy i dichasei	(3).						
Capacity:		Electrici	ty Generation Project (MW	()	DR D	irect Use Project (mmBtu/h	r)
Estimated Potent	ial Capacity:			8			79
Current Capacity:	:						
Planned Capacity	:						
Utilities in County:		Davidson El	ectric Member Corp: Duke	Power Co:	∟ High Point Ele	ectric Dept; Southeastern Po	wer Adm
			RONMENTAL BENEFIT				
		D. LIVVII				Current	
Mathana Daduation (4a			Poten	ши	14,580	Current	0
Methane Reduction (to				,	·		-
CO2 Equivalent of CH	4 Reauction (to	ns/yr):			306,188		0
Emissions Avoided by	Fossil Fuel Disp	olacement:	Electricity Genera	ation Projec	t	Direct Use Projec	rt
			CO2 (tons/yr)	SO2 (tor	is/yr)	CO2 (tons/yr) So	O2 (tons/yr)
		Coal:	62,353		394	43,907	400
		Fuel Oil:	51,176		329	36,037	210
	N	latural Gas:	34,412		0	24,232	0
			E. CONTACT INFORM	ATION		1000	
		Landfill	Owner			Landfill Operator	
Contact Name:	Frank Coggins			Frank	Coggins		
Mailing Address:	PO Box 3136			2503	White Street		
Phone Number:	910-373-2035			326.2	75-2244		
	710-373-2033			330-3	1J-44 44		
Fax Number:							
* Itallicized indicates v		I ED4		mbor 5 100	0	State: NC Page	. 11

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City of High Point LF Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: City of High Point Annual Acceptance Rate (tons): 83,751 Landfill Owner Type: Public Year Annual Acceptance Rate Reported: 1993 Alternative Landfill Name: Design Capacity (tons): City: **High Point** Acres Currently Landfilled (acres): County: Guilford Average Depth (feet): State: NC Waste-in-Place (tons): 1,256,265 Year Open: 1980 1998 Waste-in-Place (tons): 1,256,265 Year Closed: 1994 **B. LANDFILL GAS COLLECTION** Estimated Methane Generation (mmscf/d): 0.74 LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Unknown Utilization System Type: Unknown Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) 2 Estimated Potential Capacity: 23 Current Capacity: Planned Capacity: Davidson Electric Member Corp; Duke Power Co; High Point Electric Dept; Southeastern Power Adm Utilities in County: D. ENVIRONMENTAL BENEFITS OF UTILIZATION Potential Current Methane Reduction (tons/yr): 4,274 0 CO2 Equivalent of CH4 Reduction (tons/yr): 89,762 0 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr) Coal: 18,153 115 12,872 117 Fuel Oil: 14,899 96 10,565 62 Natural Gas: 10.019 0 0 7,104 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: Perry Kairis John Butcher Mailing Address: PO Box 230 PO Box 230 Phone Number: 910-883-3215 919-883-3433 Fax Number:

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			City of Winston-Sal	em LF		Landfill Categ	ory: Current
		A. G	ENERAL LANDFILL IN		ON		
Landfill Owner:	D II.			-	ance Rate (tons)		258,632
Landfill Owner Type:	Public				cceptance Rate	Reported:	1993
Alternative Landfill Na		G 1		sign Capaci	-		
City:		n-Salem			y Landfilled (act	res):	
County:	Forsyth	1		erage Depth			5 250 551
State:	NC			ste-in-Place			5,258,571
Year Open:	1974		199	98 Waste-ın-	Place (tons):		5,715,838
Year Closed:	1999	ī	B. LANDFILL GAS COL	LECTION			
F. c. 1M.1. C.			S. LANDFILL GAS COL				
Estimated Methane Ge		f/d):	0	1.88			
LFG Collection System			Oper	ational			
Current LFG Collected		· 111 1 NOT	NO TO C	2.8			
Collection and Treatme	ent System Requ			No			
			C. LANDFILL GAS UTII	LIZATION			
Current Utilization:							
Utilization System	n Status:	Operational					
Utilization System	n Type:	Gas Turbine					
Utilization System	n Start Year:	1996					
Electric Utility Pr	ovider(s):						
Natural Gas Provi	ider(s):						
Energy Purchaser	(s):						
Capacity:		Electrici	ty Generation Project (MW	') C	R Dir	rect Use Project (mmB	tu/hr)
Estimated Potenti	ial Capacity:			6			59
Current Capacity:				4.3			58
Planned Capacity				4.5			30
Trainied Capacity	•						
Utilities in County:		Davidson El	ectric Member Corp; Duke	Power Co;	Surry-Yadkin E	lec Member Corp; Ter	nessee Vall
		D. ENVIR	RONMENTAL BENEFIT	S OF UTII	IZATION		
			Poter	ıtial		Curren	:
Methane Reduction (to	ons/yr):				10,869		10,792
CO2 Equivalent of CH	4 Reduction (to	ns/yr):		2	28,253		226,638
Emissions Avoided by	Fossil Fuel Disp	olacement:	Electricity Genera	•		Direct Use Pr	-
			CO2 (tons/yr)	SO2 (ton	s/yr)	CO2 (tons/yr)	SO2 (tons/yr)
		Coal:	46,567		294	32,731	298
		Fuel Oil:	38,220		246	26,864	157
	N	atural Gas:	25,700		0	18,064	0
			E. CONTACT INFORM	MATION		,	
		Landfill (77711011	ī	andfill Operator	
Contact Name:	Dan Miles			Dan M			
Mailing Address:	PO Box 2511			PO Bo	ox 2511		
Phone Number:	910-727-8418			919_7	27-8418		
	710-121-0 4 10)1)-//	2, 0710		
Fax Number:							

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Cleveland County LF Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: Cleveland County Annual Acceptance Rate (tons): 65,879 Landfill Owner Type: Public Year Annual Acceptance Rate Reported: 1993 Alternative Landfill Name: Design Capacity (tons): City: Shelby Acres Currently Landfilled (acres): County: Cleveland Average Depth (feet): State: NC Waste-in-Place (tons): 1,431,213 Year Open: 1976 1998 Waste-in-Place (tons): 1,567,519 Year Closed: 2017 **B. LANDFILL GAS COLLECTION** 0.82 Estimated Methane Generation (mmscf/d): LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Unknown Utilization System Type: Unknown Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) Estimated Potential Capacity: 3 26 Current Capacity: Planned Capacity: Broad River Elec Coop Inc; Duke Power Co; Kings Mountain Muni Elec System; Rutherford Elec Me Utilities in County: D. ENVIRONMENTAL BENEFITS OF UTILIZATION Potential Current Methane Reduction (tons/yr): 4,735 0 CO2 Equivalent of CH4 Reduction (tons/yr): 99,429 0 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr) Coal: 20,521 130 14,258 130 Fuel Oil: 108 16,843 11,702 68 Natural Gas: 0 0 11.325 7,869 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: Marty Allen James McNeilly Mailing Address: PO Box 1210 PO Box 1210 Phone Number: 704-482-9061 704-482-9061

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Columbus County, ARS Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: Chambers Waste Systems Annual Acceptance Rate (tons): 88,447 Landfill Owner Type: Private Year Annual Acceptance Rate Reported: 1993 Alternative Landfill Name: Columbus County LF Design Capacity (tons): City: Whiteville Acres Currently Landfilled (acres): County: Columbus Average Depth (feet): State: NC Waste-in-Place (tons): 1,285,344 Year Open: 1973 1998 Waste-in-Place (tons): 1,285,344 Year Closed: 1996 **B. LANDFILL GAS COLLECTION** Estimated Methane Generation (mmscf/d): 0.75 LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Unknown Utilization System Type: Unknown Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) 2 Estimated Potential Capacity: 23 Current Capacity: Planned Capacity: Brunswick Electric Member Corp; Carolina Power & Light Company; Four County Elec Member Cor Utilities in County: D. ENVIRONMENTAL BENEFITS OF UTILIZATION Potential Current Methane Reduction (tons/yr): 4,317 0 CO2 Equivalent of CH4 Reduction (tons/yr): 90,665 0 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr) Coal: 18,153 115 13,001 118 Fuel Oil: 14,899 96 10,671 62 Natural Gas: 10.019 0 0 7,175 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: Wade Jernigan Wade Jernigan Mailing Address: PO Box 297 PO Box 1326 Phone Number: 910-642-6099 919-642-6099

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Craven County LF Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: Craven County Annual Acceptance Rate (tons): 19,659 Landfill Owner Type: Year Annual Acceptance Rate Reported: 1993 Alternative Landfill Name: Design Capacity (tons): City: Acres Currently Landfilled (acres): County: Craven Average Depth (feet): State: NC Waste-in-Place (tons): 985,028 Year Open: 1982 1998 Waste-in-Place (tons): 1,116,365 Year Closed: 2012 **B. LANDFILL GAS COLLECTION** Estimated Methane Generation (mmscf/d): 0.70 LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Unknown Utilization System Type: Unknown Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) 2 Estimated Potential Capacity: 22 Current Capacity: Planned Capacity: Carolina Power & Light Company; Carteret-Craven El Member Corp; Jones-Onslow Elec Member C Utilities in County: D. ENVIRONMENTAL BENEFITS OF UTILIZATION Potential Current Methane Reduction (tons/yr): 4.068 0 CO2 Equivalent of CH4 Reduction (tons/yr): 85,418 0 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr) Coal: 17,364 110 12,249 112 Fuel Oil: 59 14,252 92 10,053 Natural Gas: 0 0 9.583 6,760 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: Kenneth Chase George Sawyer Mailing Address: PO Box 1425 PO Box 1425 Administration Building Administration Building Phone Number: 919-633-6822 919-636-6600 Fax Number:

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			Cumberland Cou	nty LF		Landfill Category	: Current
		A. GI	ENERAL LANDFILL I		ION	5 .	
Landfill Owner: Landfill Owner Type: Alternative Landfill Na City:	Public nme: Fayette	ville	Υ Ε	Annual Accept Tear Annual A Design Capacit Acres Currentl	acceptance l ty (tons):	Rate Reported:	178,480 1993
County:	Cumber			verage Depth	-	o (de105).	
State:	NC			Vaste-in-Place			2,948,331
Year Open:	1980		1	998 Waste-in-	Place (tons	s):	3,295,195
Year Closed:	2032						
		E	3. LANDFILL GAS CO	LLECTION			
Estimated Methane Gen LFG Collection System	_	f/d):		1.26			
Current LFG Collected				1.8			
Collection and Treatme		iired Under NSP	S/EG:	No			
	, ,		C. LANDFILL GAS UT	ILIZATION			
Current Utilization:							
Utilization System Utilization System Utilization System Electric Utility Pro Natural Gas Provi	n Type: n Start Year: ovider(s): der(s):	Operational Boiler 1997					
Energy Purchaser	(S):	Cargill Incor	porated				
Capacity:		Electricit	y Generation Project (M	W) C	R	Direct Use Project (mmBtu/	nr)
Estimated Potential Current Capacity: Planned Capacity:				4			39 38
Utilities in County:		Carolina Pov	ver & Light Company; Fa	ayetteville Pu	b Wks Com	nm; Lumbee River Elec Memb	er Corp; S
		D. ENVIR	ONMENTAL BENEFI	TS OF UTIL	IZATION		
			Pot	ential		Current	
Methane Reduction (to CO2 Equivalent of CH-	• '	ns/yr):		1	7,290 153,080		6,938 145,696
Emissions Avoided by I	Fossil Fuel Disp	placement:	Electricity Gene	-		Direct Use Proje	
			CO2 (tons/yr)	SO2 (ton	-		O2 (tons/yr)
		Coal: Fuel Oil:	30,782		195 163	21,952	200 105
	W	atural Gas:	25,264 16,988		0	18,017 12,115	0
	14	aiarai Gas.				12,113	
		Landfill (E. CONTACT INFOR	RMATION		Landfill Operator	
Contact Name:	Larry Carter			Larry	Carter		
Mailing Address:	698 Ann Street	:			nn Street		
Phone Number:	910-483-4897			919_4	83-4897		
Fax Number:	710 403-4071			717-40	03 TO) I		
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Edgecombe County LF Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: Edgecombe County Annual Acceptance Rate (tons): 73,759 Landfill Owner Type: Public Year Annual Acceptance Rate Reported: 1993 Alternative Landfill Name: Design Capacity (tons): City: Tarboro Acres Currently Landfilled (acres): County: Edgecombe Average Depth (feet): State: NC Waste-in-Place (tons): 1,870,499 1998 Waste-in-Place (tons): Year Open: 1971 2,014,384 Year Closed: 2007 **B. LANDFILL GAS COLLECTION** 0.93 Estimated Methane Generation (mmscf/d): LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Unknown Unknown Utilization System Type: Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) Estimated Potential Capacity: 3 29 **Current Capacity:** Planned Capacity: Utilities in County: Carolina Power & Light Company; Edgecombe-Martin County EMC; Macclesfield Elec Dept; Pineto D. ENVIRONMENTAL BENEFITS OF UTILIZATION

	Pote	ential	Current		
Methane Reduction (tons/yr):		5,396		0	
CO2 Equivalent of CH4 Reduction (tons/yr):	113,306				
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project		Direct Use Project		
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)	
Coal:	22,889	145	16,248	148	
Fuel Oil:	18,786	121	13,335	78	
Natural Gas:	12,632	0	8,967	0	

E. CONTACT INFORMATION

Landfill Owner

		1
Contact Name:	Larry Hathaway	Larry Hathaway
Mailing Address:	201 St. Andrews Street	201 St. Andrews Street
Phone Number: Fax Number:	919-827-4253	919-827-4253

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Landfill Operator

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Gaston County LF Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: Gaston County Annual Acceptance Rate (tons): 130,097 Landfill Owner Type: Public Year Annual Acceptance Rate Reported: 1993 Alternative Landfill Name: Hardin Site Design Capacity (tons): City: Dallas Acres Currently Landfilled (acres): County: Gaston Average Depth (feet): State: NC Waste-in-Place (tons): 1,634,226 Year Open: 1986 1998 Waste-in-Place (tons): 1,931,358 Year Closed: 2004 **B. LANDFILL GAS COLLECTION** 0.91 Estimated Methane Generation (mmscf/d): LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Unknown Utilization System Type: Unknown Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) Estimated Potential Capacity: 3 29 Current Capacity: Planned Capacity: Cherryville Electric Dept; Crescent Elec Mem Corp; Dallas Electric Dept; Duke Power Co; Gastonia Utilities in County: D. ENVIRONMENTAL BENEFITS OF UTILIZATION Potential Current Methane Reduction (tons/yr): 5,273 0 CO2 Equivalent of CH4 Reduction (tons/yr): 110,727 0 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr) Coal: 22,100 140 15,878 145 Fuel Oil: 18,139 117 13,032 76 Natural Gas: 0 0 12,197 8,763 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: William Beasley William Beasley Mailing Address: PO Box 1578 PO Box 1578 Phone Number: 704-866-3100 704-866-3100 Fax Number:

* Itallicized indicates values estimated by EPA. December 5, 1998 State: NC Page: 19



Harnett County LF Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: Harnett County Annual Acceptance Rate (tons): 55,254 Landfill Owner Type: Public Year Annual Acceptance Rate Reported: 1993 Alternative Landfill Name: Harnett County Dunn/Erwin LF Design Capacity (tons): City: Dunn/Erwin Acres Currently Landfilled (acres): County: Harnett Average Depth (feet): State: NC Waste-in-Place (tons): 1.154.018 Year Open: 1,263,926 1976 1998 Waste-in-Place (tons): Year Closed: 2017 **B. LANDFILL GAS COLLECTION** Estimated Methane Generation (mmscf/d): 0.74 LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Unknown Utilization System Type: Unknown Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) 2 Estimated Potential Capacity: 23 Current Capacity: Planned Capacity: Carolina Power & Light Company; Central Electric Member Corp; South River Elec Member Corp; S Utilities in County: D. ENVIRONMENTAL BENEFITS OF UTILIZATION Potential Current Methane Reduction (tons/yr): 4.286 0 CO2 Equivalent of CH4 Reduction (tons/yr): 90,000 0 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr) Coal: 18,153 115 12,906 117 Fuel Oil: 14,899 96 10,593 62 Natural Gas: 10.019 0 0 7,123 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: Jerry Blanchard Jerry Blanchard Mailing Address: Harnett County Office Building Harnett County Office Building Phone Number: 910-893-7536 919-893-7536

* Itallicized indicates values estimated by EPA. December 5, 1998 State: NC Page: 20



			Henderson	County LF		La	andfill Category:	Current
		A. G	ENERAL LANDFI	-	MATION		<i>y G- y-</i>	
Landfill Owner:	Hender	rson County		Δnnual /	Acceptance Rat	re (tons):		73,008
Landfill Owner Type:	Public	Son County			-	ce Rate Reported:		1998
Alternative Landfill N					Capacity (tons):	-		1770
City:	Hendersonville			_	irrently Landfi			60
County:	Hender				Depth (feet):	neu (acres).		100
State:	NC	SOII			aste-in-Place (t	ona):		2,100,000
						•		
Year Open:	1965			1998 Wa	ste-in-Place (to	ons):		2,100,000
Year Closed:	1997	1	B. LANDFILL GAS	COLLEC	FION			
T			D. EANDFILE GAR					
Estimated Methane Ge		f/d):		0.9				
LFG Collection System				Operationa				
Current LFG Collected				0.				
Collection and Treatm	ent System Req			N				
			C. LANDFILL GAS	S UTILIZA	TION			
Current Utilization:								
Utilization Syster	n Status:	Operational						
Utilization System	n Type:	Boiler						
Utilization Syster	n Start Year:	1997						
Electric Utility Pr	rovider(s):							
Natural Gas Prov								
Energy Purchaser	* *	Seneca Food	ls					
Energy 1 uremuses	.(0).	20110011 1 0 0 0						
Capacity:		Electrici	ty Generation Projec	et (MW)	OR	Direct Use P	roject (mmBtu/hr)
Estimated Potent	ial Capacity:			3				28
Current Capacity								6
Planned Capacity								0
Trainied Capacity	•							
Utilities in County:		Duke Power	Co; Southeastern Po	ower Admin				
		D. ENVII	RONMENTAL BEN	NEFITS OF	UTILIZATI(ON		
				Potential			Current	
Methane Reduction (to	ons/vr)·			2 0101111011	5,231		Current	1,156
CO2 Equivalent of CH	• .	ns/ur):			109,851			24,282
CO2 Equivalent of CI	14 Reduction (10	11.37 yr).			107,031			24,202
Emissions Avoided by	Fossil Fuel Disp	placement:	Electricity	Generation I	Project	D	irect Use Project	
			CO2 (tons/yr	r) SC	02 (tons/yr)	CO2 (to	ns/yr) SO	2 (tons/yr)
		Coal:	22,10	00	140		15,752	143
		Fuel Oil:	18,13	39	117		12,929	75
	λ.							
	N	latural Gas:	12,19		0		8,694	0
		T 10"11	E. CONTACT IN	FORMATI	ON	1 1611 0		
	Г	Landfill	Owner			Landfill Op	perator	
Contact Name:	Gary Corn				Elden Owen			
Mailing Address:	802 Stony Mor	untain Road			802 Stony Mou	untain Road		
8								
Phone Number:	704 607 4505				704 607 4717			
	704-697-4505				704-697-4715			
Fax Number:								

* Itallicized indicates values estimated by EPA. December 5, 1998 State: NC Page: 21



			High Point-Guilfor	d County		Landfill Categor	y: Candidate
		A. G	ENERAL LANDFILL	NFORMAT	ON		
Landfill Owner:	City of	High Point	A	nnual Accept	ance Rate (tons)):	19,335
Landfill Owner Type:	Public	C		-	cceptance Rate		1993
Alternative Landfill Na	ame: High P	oint LF-Guilford		Design Capaci	-	•	
City:	High P				y Landfilled (ac	res):	150
County:	Guilfor			verage Depth	•	,	75
State:	NC				-Place (tons):		2,640,000
Year Open:	1974			998 Waste-in			2,640,000
Year Closed:	1993		-	yy o yy eddie in	1 10.00 (10.13).		2,0.0,000
		I	B. LANDFILL GAS CO	LLECTION			
Estimated Methane Ge	eneration (mmsc	f/d):		1.09			
LFG Collection System		<i>y.</i> /-	On	erational			
Current LFG Collected			o _P				
Collection and Treatme		uired Under NSP	S/FG·	No			
Concetion and Treatm	one by stem reeq.		C. LANDFILL GAS UT				
C THE C			3V 21 11 12 11 11 11 11 11 11 11 11 11 11				
Current Utilization:	G	D1 1					
Utilization System		Planned					
Utilization System	• •	Unknown					
Utilization System							
Electric Utility Pr							
Natural Gas Provi							
Energy Purchaser	r(s):						
Capacity:		Electrici	y Generation Project (M	W) C	R Dia	rect Use Project (mmBtu	hr)
Estimated Potenti	ial Capacity:			3			34
Current Capacity:							
Planned Capacity	:						
Utilities in County:		Davidson Fl	ectric Member Corn: Du	ze Power Co:	High Point Flec	tric Dept; Southeastern F	Power Adm
ounties in county.			CONMENTAL BENEF			The Dept, Southeastern I	ower rum
		D. ENVIR			LIZATION		
			Por	ential		Current	
Methane Reduction (to	-				6,321		0
CO2 Equivalent of CH	4 Reduction (to	ns/yr):		1	.32,733		0
Emissions Avoided by	Fossil Fuel Dis	nlacomont:	Electricity Gene	ration Projec	<i>t</i>	Direct Use Proje	net
Emissions Avoided by	rossii ruei Dis _l	насетені.		_			
			CO2 (tons/yr)	SO2 (ton	(S/ YI)		SO2 (tons/yr)
		Coal:	26,835		170	19,034	173
		Fuel Oil:	22,025		142	15,622	91
	λ	latural Gas:	14,810		0	10,505	0
	- '	Contract Cust	E. CONTACT INFO	DMATION		10,000	
		Landfill (WIATION	Ī	andfill Operator	
Contact Name:		Landini	J W II CI	T 1 T		Zandrin Operator	
Comact Ivallie.				John I	Butcher		
Mailing Address:	PO Box 230			5873 1	Riverdale Road		
Phone Number:				919-8	35-0914		
				717-0			
Fax Number:							

* Itallicized indicates values estimated by EPA. December 5, 1998 State: NC Page: 22



Iredell County LF Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: Iredel County Annual Acceptance Rate (tons): 31,227 Landfill Owner Type: Public Year Annual Acceptance Rate Reported: 1993 Alternative Landfill Name: Design Capacity (tons): City: Statesville Acres Currently Landfilled (acres): County: Iredell Average Depth (feet): State: NC Waste-in-Place (tons): 2,280,900 Year Open: 1975 1998 Waste-in-Place (tons): 2,488,255 Year Closed: 2012 **B. LANDFILL GAS COLLECTION** 1.05 Estimated Methane Generation (mmscf/d): LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Planned Utilization System Type: Reciprocating Engine Utilization System Start Year: 1997 Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Accuma Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) Estimated Potential Capacity: 3 33 Current Capacity: Planned Capacity: Crescent Elec Mem Corp; Duke Power Co; Statesville Light Dept Utilities in County: D. ENVIRONMENTAL BENEFITS OF UTILIZATION Potential Current Methane Reduction (tons/yr): 6,096 0 CO2 Equivalent of CH4 Reduction (tons/yr): 128,020 0 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr) Coal: 26,046 165 18,358 167 Fuel Oil: 21,378 138 15,067 88 Natural Gas: 0 0 14.375 10,132 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: Joel Mashburn Mailing Address: PO Box 788 County Office Building Phone Number: 704-872-9501 704-872-9501

* Itallicized indicates values estimated by EPA. December 5, 1998 State: NC Page: 23



Johnston County LF Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: Johnston County Annual Acceptance Rate (tons): 74,151 Landfill Owner Type: Public Year Annual Acceptance Rate Reported: 1993 Alternative Landfill Name: Design Capacity (tons): City: Selma Acres Currently Landfilled (acres): County: Johnston Average Depth (feet): NC State: Waste-in-Place (tons): 1,708,932 Year Open: 1973 1,780,138 1998 Waste-in-Place (tons): Year Closed: 1997 **B. LANDFILL GAS COLLECTION** Estimated Methane Generation (mmscf/d): 0.87 LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Potential Utilization System Type: Unknown Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) Estimated Potential Capacity: 3 27 **Current Capacity:** Planned Capacity: Utilities in County: Benson Electric Dept; Carolina Power & Light Company; Clayton Electric Dept; Selma Muni Light & D. ENVIRONMENTAL BENEFITS OF UTILIZATION

D. ENVIRONMENTAL BENEFITS OF CITELEATION											
	Pot	ential	Curr	ent							
Methane Reduction (tons/yr):		5,049		0							
CO2 Equivalent of CH4 Reduction (tons/yr):		106,031		0							
Emissions Avoided by Fossil Fuel Displacement:	Electricity Gene	ration Project	Direct Use	Project							
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)							
Coal:	21,311	135	15,205	138							
Fuel Oil:	17,491	113	12,479	73							
Natural Gas:	11,761	0	8,391	0							
	E. CONTACT INFOR	RMATION									

	Landfill Owner	Landfill Operator
Contact Name:	Haywood Phthic	Haywood Phthic
Mailing Address:	PO Box 1052	PO Box 1052
Phone Number:	919-989-5075	919-989-5075
Fax Number:		

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			Lee County LF			Landfill Categor	y: Candidate
		A. G	SENERAL LANDFILL INFO	RMAT]	ION		
Landfill Owner:	Lee Co	unty	Annua	al Accept	tance Rate (tons):	13,548
Landfill Owner Type:			Year A	Annual A	acceptance l	Rate Reported:	1993
Alternative Landfill N	ame:		Design	n Capaci	ty (tons):		
City:	Lemon	Springs	Acres	Currentl	y Landfilled	d (acres):	
County:	Lee		Avera	ge Depth	(feet):		
State:	NC		Waste	-in-Place	e (tons):		935,481
Year Open:	1972		1998 V	Waste-in-	-Place (tons	s):	1,010,321
Year Closed:	1999						
			B. LANDFILL GAS COLLE	CTION			
Estimated Methane Ge	eneration (mmsc	f/d):	0).68			
LFG Collection System	n Status:						
Current LFG Collected	d (mmscf/d):						
Collection and Treatm	ent System Requ	iired Under NS	PS/EG:	No			
			C. LANDFILL GAS UTILIZ	ZATION			
Current Utilization:							
Utilization Syster	n Status:	Unknown					
Utilization Syster	n Type:	Unknown					
Utilization Syster	n Start Year:						
Electric Utility Pr	ovider(s):						
Natural Gas Prov	ider(s):						
Energy Purchaser	r(s):						
~ .							
Capacity:		Electric	ity Generation Project (MW)		OR T	Direct Use Project (mmBtu	/hr)
Estimated Potent				2			21
Current Capacity							
Planned Capacity	:						
Utilities in County:		Carolina Po	wer & Light Company; Central Electric Member Corp; Southeastern Power Admin				
		D. ENVI	RONMENTAL BENEFITS (OF UTII	LIZATION		
			Potentia	l		Current	
Methane Reduction (to	ons/vr):				3,911		0
CO2 Equivalent of CH	= '	15/vr):			82,125		0
Emissions Avoided by	Fossil Fuel Disp	placement:	Electricity Generatio	n Projec	rt	Direct Use Proj	ect
			CO2 (tons/yr)	SO2 (tor	ıs/yr)	CO2 (tons/yr)	SO2 (tons/yr)
		Coal:	16,575		105	11,777	107
		Fuel Oil:	13,604		88	9,666	56
Natural Gas:			9,147		0	6,499	0
			E. CONTACT INFORMA	TION			
		Landfill	Owner			Landfill Operator	
Contact Name:	John Payne			Bobby	y Johnston		
Mailing Address:	PO Box 89			PO Bo	ox 89		
maning nucless.	I O BOX 0)			SR 11			
Phone Number:	919-499-2311				99-2311		
	717 -4 77-4311)19-4)	//-4J11		
Fax Number:							

* Itallicized indicates values estimated by EPA. December 5, 1998 State: NC Page: 25



Lenoir County LF Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: Annual Acceptance Rate (tons): 71,569 Landfill Owner Type: Public Year Annual Acceptance Rate Reported: 1993 Alternative Landfill Name: Design Capacity (tons): City: La Grange Acres Currently Landfilled (acres): County: Lenoir Average Depth (feet): State: NC Waste-in-Place (tons): 1,093,204 Year Open: 1981 1998 Waste-in-Place (tons): 1,229,855 Year Closed: 1999 **B. LANDFILL GAS COLLECTION** Estimated Methane Generation (mmscf/d): 0.73 LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Unknown Utilization System Type: Unknown Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) 2 Estimated Potential Capacity: 23 Current Capacity: Planned Capacity: Carolina Power & Light Company; Jones-Onslow Elec Member Corp; Kinston Public Utilities; La Gr Utilities in County: D. ENVIRONMENTAL BENEFITS OF UTILIZATION Potential Current Methane Reduction (tons/yr): 4,235 0 CO2 Equivalent of CH4 Reduction (tons/yr): 88,941 0 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr) Coal: 18,153 115 12,754 116 Fuel Oil: 14,899 96 10,468 61 Natural Gas: 10.019 0 0 7,039 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: **Bob Brafford** Larry Jones Mailing Address: PO Box 757 Route 4, Box 187 Phone Number: 919-527-2191 919-566-4194 Fax Number:

State: NC

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* Itallicized indicates values estimated by EPA. December 5, 1998



Mecklenburg County LF Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: Mecklenburg County Annual Acceptance Rate (tons): 176,697 Landfill Owner Type: Public Year Annual Acceptance Rate Reported: 1998 Alternative Landfill Name: Harrisburg Road LF Design Capacity (tons): City: Acres Currently Landfilled (acres): County: Mecklenburg Average Depth (feet): State: NC 1998 Waste-in-Place (tons): 3,710,642 Year Open: 1973 1998 Waste-in-Place (tons): 3,710,642 Year Closed: 1996 **B. LANDFILL GAS COLLECTION** Estimated Methane Generation (mmscf/d): 1.37 LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: Yes C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Unknown Unknown Utilization System Type: Utilization System Start Year: Electric Utility Provider(s): Duke Power Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) Estimated Potential Capacity: 4 43 **Current Capacity:** Planned Capacity: Utilities in County: Cornelius Munic Elec Light System; Crescent Elec Mem Corp; Davidson Electric Member Corp; Duk D. ENVIRONMENTAL BENEFITS OF UTILIZATION

	Pote	ential	Curre	ent	
Methane Reduction (tons/yr):		7,904		0	
CO2 Equivalent of CH4 Reduction (tons/yr):	165,982				
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project Direct Use		Direct Use	Use Project	
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)	
Coal:	33,939	215	23,802	217	
Fuel Oil:	27,856	179	19,535	114	
Natural Gas:	18,730	0	13,136	0	

E. CONTACT INFORMATION

Landfill Operator

Landfill Owner

		Editoriii Operator
Contact Name:	Scott Brown	Eddie Allen
Mailing Address:	700 North Tryon Street	700 North Tryon Street
Phone Number: Fax Number:	704-336-6513	704-575-6583

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Nash County LF Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: Nash County Annual Acceptance Rate (tons): 81,646 Landfill Owner Type: Public Year Annual Acceptance Rate Reported: 1993 Alternative Landfill Name: Design Capacity (tons): City: Nashville Acres Currently Landfilled (acres): County: Nash Average Depth (feet): State: NC Waste-in-Place (tons): 1.669,484 Year Open: 1,748,985 1976 1998 Waste-in-Place (tons): Year Closed: 1997 **B. LANDFILL GAS COLLECTION** Estimated Methane Generation (mmscf/d): 0.87 LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Unknown Utilization System Type: Unknown Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) Estimated Potential Capacity: 3 27 Current Capacity: Planned Capacity: Carolina Power & Light Company; Edgecombe-Martin County EMC; Halifax Electric Member Corp; Utilities in County: D. ENVIRONMENTAL BENEFITS OF UTILIZATION Potential Current Methane Reduction (tons/yr): 5.003 0 CO2 Equivalent of CH4 Reduction (tons/yr): 105,063 0 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr) Coal: 21,311 135 15,066 137 Fuel Oil: 17,491 113 12,365 72 Natural Gas: 11.761 0 0 8,315 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: Greg Griffin David Thompson Mailing Address: PO Box 849 PO Box 849 Phone Number: 919-459-9899 919-459-9899

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			New Hanover Cou	-		Landfill Categ	ory: Candidate
		A. Gl	ENERAL LANDFILL II	NFORM	IATION		
Landfill Owner:	New H	anover County	Ai	nnual Ac	cceptance Rate (t	tons):	113,000
Landfill Owner Type:	Public		Ye	ear Annı	ual Acceptance F	Rate Reported:	1998
Alternative Landfill N	ame:		De	esign Ca	apacity (tons):		
City:	Wilmir	igton	A	cres Cur	rently Landfilled	l (acres):	60
County:	New H	anover	A	verage D	Depth (feet):		70
State:	NC		W	aste-in-l	Place (tons):		1,478,300
Year Open:	1981		19	98 Wasi	te-in-Place (tons):	1,663,088
Year Closed:	2042						
		F	3. LANDFILL GAS COI	LLECT	ION		
Estimated Methane Ge	eneration (mmsc	f/d):		0.84			
LFG Collection System	n Status:						
Current LFG Collected	d (mmscf/d):						
Collection and Treatm	ent System Requ	uired Under NSP	S/EG:	Yes			
	<u> </u>	(C. LANDFILL GAS UTI	LIZAT	ION		
Current Utilization:							
Utilization System	n Status:	Potential					
Utilization System		Unknown					
Utilization System		Cimilo Wi					
Electric Utility Pr		Carolina Pov	ver & Light				
Natural Gas Prov		NC Natural (
Energy Purchase	` '		nical, USA ;Hoechst Cela	nese			
Energy Turchaser	(3).	rukedu Cher	mear, obri ,riocciist ceia	iicsc			
Capacity:	Electricit	y Generation Project (MV	V)	OR	Direct Use Project (mmB	tu/hr)	
Estimated Potent	ial Capacity:			3			26
Current Capacity	:						
Planned Capacity	:						
Utilities in County:		Carolina Pov	ver & Light Company; So	uitheaste	ern Power Admir	1	
Othities in County.			CONMENTAL BENEFI			1	
		D. ENVIR			UTILIZATION	_	
			Pote	ential	4.05.6	Current	
Methane Reduction (to					4,876		0
CO2 Equivalent of CH	14 Reduction (to	ns/yr):			102,396		0
Emissions Avoided by	Fossil Fuel Disi	olacement:	Electricity Gener	ation Pr	roject	Direct Use Pr	oiect
2	1 obsti 1 tier 2 tsp		CO2 (tons/yr)		? (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
		C 1		202		, ,	
		Coal:	20,521		130	14,683	134
		Fuel Oil:	16,843		108	12,052	70
	N	atural Gas:	11,325		0	8,104	0
			E. CONTACT INFOR	MATIO	ON		
		Landfill (Owner			Landfill Operator	
Contact Name:	Ray Church			P	aul Marlow		
Mailing Address:	3002 Highway	421 North		5	210 US Highway	y 421	
	1002 1118111149	.311,0141				, ·- -	
Phone Number:	010 241 4240				10 241 4240		
Thone Rumbel.	910-341-4340			9.	10-341-4340		



Newton LF Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: Catawba County Annual Acceptance Rate (tons): 144,450 Landfill Owner Type: Public Year Annual Acceptance Rate Reported: 1998 Alternative Landfill Name: Design Capacity (tons): City: Newton Acres Currently Landfilled (acres): County: Catawba Average Depth (feet): State: NC 1998 Waste-in-Place (tons): 2,168,232 Year Open: 1981 1998 Waste-in-Place (tons): 2,168,232 Year Closed: 1990 **B. LANDFILL GAS COLLECTION** 0.97 Estimated Methane Generation (mmscf/d): LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Planned Utilization System Type: Reciprocating Engine Utilization System Start Year: 1999 Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Duke Power Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) Estimated Potential Capacity: 3 30 Current Capacity: Planned Capacity: 2.5 Crescent Elec Mem Corp; Duke Power Co; Maiden Electric Utility; Newton Electric Dept; Rutherfor Utilities in County: D. ENVIRONMENTAL BENEFITS OF UTILIZATION Potential Current Methane Reduction (tons/yr): 5.623 0 CO2 Equivalent of CH4 Reduction (tons/yr): 118.083 0 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr) Coal: 23,678 150 16,933 154 Fuel Oil: 19,434 125 13,898 81 Natural Gas: 0 9,345 0 13.068 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: Dick Wyatt, City Engineer Barry Edwards Mailing Address: PO Box 389 PO Box 389 Phone Number: 704-465-8263 828-465-8260

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Crange Regional LF Landfill Category: A. GENERAL LANDFILL INFORMATION Landfill Owner: Landfill Owner Type: Public Year Annual Acceptance Rate Reported:	
	121,345
	1993
Alternative Landfill Name: Design Capacity (tons):	
City: Chapel Hill Acres Currently Landfilled (acres):	75
County: Orange Average Depth (feet):	30
State: NC 1998 Waste-in-Place (tons):	1,600,000
Year Open: 1972 1998 Waste-in-Place (tons):	1,600,000
Year Closed: 1994	
B. LANDFILL GAS COLLECTION	
Estimated Methane Generation (mmscf/d): 0.83	
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG: No	
C. LANDFILL GAS UTILIZATION	
Current Utilization:	
Utilization System Status: Planned	
Utilization System Type: Unknown	
Utilization System Start Year: 2000	
Electric Utility Provider(s):	
Natural Gas Provider(s):	
Energy Purchaser(s):	
Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr))
Estimated Potential Capacity: 3	26
Current Capacity:	20
Planned Capacity:	
Utilities in County: Duke Power Co; Piedmont Electric Member Corp; Southeastern Power Admin	
D. ENVIRONMENTAL BENEFITS OF UTILIZATION	
Potential Current	
Methane Reduction (tons/yr): 4,783	0
CO2 Equivalent of CH4 Reduction (tons/yr): 100,437	0
Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project CO2 (control of the project	
CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 Coal: 20,521 130 14,403	2 (tons/yr) 131
Fuel Oil: 16,843 108 11,821	69
Natural Gas: 11,325 0 7,949	0
E. CONTACT INFORMATION	
Landfill Owner Landfill Operator	
Landfill Owner Landfill Operator	
Landfill Owner Landfill Operator Contact Name: Gayle Wilson Harold Harris	
Landfill Owner Landfill Operator Contact Name: Gayle Wilson Harold Harris	



Piedmont SLF Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: Annual Acceptance Rate (tons): 350,509 Landfill Owner Type: Year Annual Acceptance Rate Reported: 1993 Alternative Landfill Name: Design Capacity (tons): City: Kernersville Acres Currently Landfilled (acres): County: Forsyth Average Depth (feet): State: NC Waste-in-Place (tons): 959,464 Year Open: 1992 1998 Waste-in-Place (tons): 1,343,250 Year Closed: 2016 **B. LANDFILL GAS COLLECTION** Estimated Methane Generation (mmscf/d): 0.76 LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Planned Utilization System Type: Reciprocating Engine Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) 2 Estimated Potential Capacity: 24 Current Capacity: Planned Capacity: City of Lake Lure; Davidson Electric Member Corp; Duke Power Co; North Carolina Electric Membe Utilities in County: D. ENVIRONMENTAL BENEFITS OF UTILIZATION Potential Current Methane Reduction (tons/yr): 4,403 0 CO2 Equivalent of CH4 Reduction (tons/yr): 92,463 0 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr) Coal: 18,943 120 13,259 121 Fuel Oil: 15,547 100 10,883 63 Natural Gas: 0 0 10,454 7,318 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: Bill Lewis Bill Lewis Mailing Address: 9900 Freedman Road 9900 Freedman Road Phone Number: 910-595-6677 919-595-6677

* Itallicized indicates values estimated by EPA. December 5, 1998 State: NC Page: 32



Landfill Owner: Landfill Owner Type: Public	A. GE	Pitt County I		ION	, ,	<u>·</u>
Landfill Owner Type: Public						
• •		A	nnual Accep	tance Rate ((tons):	125,313
			-		Rate Reported:	1993
Alternative Landfill Name:		D	esign Capaci	ity (tons):	-	
City: Green	rille		cres Current		d (acres):	85
County: Pitt			verage Deptl	-		40
State: NC			/aste-in-Plac			3,064,206
Year Open: 1974			998 Waste-in		s):	2,808,857
Year Closed: 1995					,	
	В	. LANDFILL GAS CO	LLECTION			
Estimated Methane Generation (mmsc	rf/d):		1.14			
LFG Collection System Status:						
Current LFG Collected (mmscf/d):			1.4			
Collection and Treatment System Req			No			
	C	C. LANDFILL GAS UT	ILIZATION	1		
Current Utilization:						
Utilization System Status:	Operational					
Utilization System Type:	Boiler					
Utilization System Start Year:	1998					
Electric Utility Provider(s):						
Natural Gas Provider(s):						
Energy Purchaser(s):	Pitt County N	Iemorial Hospital				
Capacity:	Electricit	y Generation Project (M	W) (OR	Direct Use Project (mmBt	u/hr)
Estimated Potential Capacity:			4			36
Current Capacity:						29
Planned Capacity:						
Utilities in County:	Avden Electr	ic Dent: Carolina Power	& Light Con	nnany: Davi	idson Electric Member Corp	· Edgecomb
	-	ONMENTAL BENEFI				
			ential		Current	
Methane Reduction (tons/yr):				6,570		5,396
CO2 Equivalent of CH4 Reduction (to	ns/yr):			137,976		113,320
	,					
Emissions Avoided by Fossil Fuel Dis	placement:	Electricity Gene	ration Projec	ct	Direct Use Pro	ject
		CO2 (tons/yr)	SO2 (to	ns/yr)	CO2 (tons/yr)	SO2 (tons/yr)
	Coal:	28,414		180	19,786	180
	Fuel Oil:	23,321		150	16,239	95
Λ	latural Gas:	15,681		0	10,920	0
		E. CONTACT INFOR	RMATION			
	Landfill C				Landfill Operator	
Contact Name: John Weaver			Phil I	Dickerson		
Mailing Address: 1717 West 5th	Street		1717	West 5th St	reet	
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						
Phone Number: 919-830-6354			919-8	330-6325		
1						
Fax Number:						

^{*} Itallicized indicates values estimated by EPA. December 5, 1998



Randolph County LF Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: Randolph County Annual Acceptance Rate (tons): 74,677 Landfill Owner Type: Public Year Annual Acceptance Rate Reported: 1993 Alternative Landfill Name: Design Capacity (tons): City: Asheboro Acres Currently Landfilled (acres): County: Randolph Average Depth (feet): State: NC Waste-in-Place (tons): 1,815,420 Year Open: 1973 1,966,705 1998 Waste-in-Place (tons): Year Closed: 1998 **B. LANDFILL GAS COLLECTION** 0.92 Estimated Methane Generation (mmscf/d): LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Unknown Utilization System Type: Unknown Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) Estimated Potential Capacity: 3 29 Current Capacity: Planned Capacity: Carolina Power & Light Company; Central Electric Member Corp; Davidson Electric Member Corp; Utilities in County: D ENVIDONMENTAL DENEETS OF UTIL 17 ATION

D. ENVII	RONMENTAL BENEFT	IS OF UTILIZATION		
	Pote	ential	Curre	ent
Methane Reduction (tons/yr):		5,325		0
CO2 Equivalent of CH4 Reduction (tons/yr):		111,825		0
Emissions Avoided by Fossil Fuel Displacement:	Electricity Gener	ation Project	Direct Use	Project
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
Coal:	22,889	145	16,036	146
Fuel Oil:	18,786	121	13,161	77
Natural Gas:	12,632	0	8,850	0
	E. CONTACT INFOR	MATION		

Contact Name: David Townsend J.D. Smith
Mailing Address: PO Box 4728 PO Box 4728

Phone Number: 910-318-6606 919-318-6606

Fax Number:

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Robeson County LF Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: Annual Acceptance Rate (tons): 80,588 Landfill Owner Type: Public Year Annual Acceptance Rate Reported: 1993 Alternative Landfill Name: Design Capacity (tons): City: St. Pauls Acres Currently Landfilled (acres): County: Robeson Average Depth (feet): State: NC Waste-in-Place (tons): 1,009,134 Year Open: 1985 1998 Waste-in-Place (tons): 1,177,323 Year Closed: 2012 **B. LANDFILL GAS COLLECTION** Estimated Methane Generation (mmscf/d): 0.72 LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Unknown Utilization System Type: Unknown Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) 2 Estimated Potential Capacity: 23 Current Capacity: Planned Capacity: Brunswick Electric Member Corp; Carolina Power & Light Company; Duke Power Co; Lumbee Rive Utilities in County: D. ENVIRONMENTAL BENEFITS OF UTILIZATION Potential Current Methane Reduction (tons/yr): 4,158 0 CO2 Equivalent of CH4 Reduction (tons/yr): 87,310 0 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr) Coal: 17,364 110 12,520 114 Fuel Oil: 14,252 92 10,276 60 Natural Gas: 0 6,910 0 9.583 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: W.C. Baxley W.C. Baxley Mailing Address: Route 2, Box 545 Route 2, Box 545 PO Box 366 Phone Number: 800-682-2014 800-682-2014 Fax Number:



Rockingham County LF Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: Annual Acceptance Rate (tons): 77,891 Landfill Owner Type: Public Year Annual Acceptance Rate Reported: 1993 Alternative Landfill Name: Design Capacity (tons): City: Wentworth Acres Currently Landfilled (acres): County: Rockingham Average Depth (feet): State: NC Waste-in-Place (tons): 1,357,483 Year Open: 1972 1998 Waste-in-Place (tons): 1,357,483 Year Closed: 1994 **B. LANDFILL GAS COLLECTION** Estimated Methane Generation (mmscf/d): 0.77 LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Unknown Utilization System Type: Unknown Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) 2 Estimated Potential Capacity: 24 Current Capacity: Planned Capacity: Davidson Electric Member Corp; Duke Power Co; French Broad Elec Member Corp; Southeastern Po Utilities in County: D. ENVIRONMENTAL BENEFITS OF UTILIZATION Potential Current Methane Reduction (tons/yr): 4,424 0 CO2 Equivalent of CH4 Reduction (tons/yr): 92,906 0 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr) Coal: 18,943 120 13,323 121 Fuel Oil: 15,547 100 10,935 64 Natural Gas: 10,454 0 0 7,353 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: Mike McDaniel Hugh Griffin Mailing Address: PO Box 211 Route 8, Box 701 E Phone Number: 919-342-8104 919-342-8180

* Itallicized indicates values estimated by EPA. December 5, 1998 State: NC Page: 36



			Rowland LF			1	Landfill Catego	25211	Shutdown
		A. Gl	ENERAL LANDFILL INFO	ORMATI	ON		лиции Синедо	,, y.	Silutuowii
Landfill Owner:	Doland L					tomalı			
Landfill Owner Type:	Private	andfill, Inc.		_	ance Rate (t	tons): Rate Reported	1.		
Alternative Landfill Name:	Private			n Capacit	-	kate Reported	1.		
	D-1-:-b		_	-	-	1 ().			25
City:	Raleigh				y Landfilled	i (acres):			25
County:	Wake			ige Depth		`			40
State:	NC				-Place (tons	,			50,000
Year Open:	1977		1998	Waste-in-	Place (tons	·):			50,000
Year Closed:	1978	T.	B. LANDFILL GAS COLLE	CTION					
Estimated Methans Consusti	on (mm a of/A			0.02					
Estimated Methane Generation		():							
LFG Collection System Statu Current LFG Collected (mms			Operation	0.0					
*	,	I I NCD	oc/E.C.						
Collection and Treatment Sys	stem Require		S/EG: C. LANDFILL GAS UTILIZ	No ZATION					
		•	LANDFILL GAS UTILIZ	LATION					
Current Utilization:									
Utilization System Statu		Shutdown							
Utilization System Type		Reciprocatin	g Engine						
Utilization System Start		1984							
Electric Utility Provider									
Natural Gas Provider(s):	:								
Energy Purchaser(s):		Carolina Pov	ver & Light Company						
Capacity:		Electricit	ty Generation Project (MW)	C	R	Direct Use	Project (mmB	u/hr)	
Estimated Potential Cap	pacity:			0					1
Current Capacity:									
Planned Capacity:			0	.17					0
Utilities in County:		Apex Lightin	ng Dept; Carolina Power & L	ight Com	pany; Duke	Power Co; S	outheastern Po	ower	Admin
		D. ENVIR	CONMENTAL BENEFITS	OF UTIL	IZATION				
			Potentia				Current		
Methane Reduction (tons/yr):			1 Otentic	ıı	102		Current		0
CO2 Equivalent of CH4 Redu		(vr).			2,146				0
CO2 Equivalent of C114 Read	uction (tons/	<i>yr)</i> .			2,140				
Emissions Avoided by Fossil	Fuel Displa	cement:	Electricity Generation	on Projec	t		Direct Use Pro	oject	
			CO2 (tons/yr)	SO2 (ton	s/yr)	CO2 (to	ons/yr)	SO	? (tons/yr)
		Coal:	789		5		308		3
		Fuel Oil:	648		4		253		2
	Natı	ural Gas:	436		0		170		0
			E. CONTACT INFORMA	TION					
		Landfill (Landfill C	Operator		
Contact Name:							•		
Mailing Address:									
Phone Number:				919-87	76-1877				
				/1/-0	. 5 10//				
Fax Number:									

^{*} Itallicized indicates values estimated by EPA. December 5, 1998 State: NC Page: 37



Sampson County LF Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: Annual Acceptance Rate (tons): 97,004 Landfill Owner Type: Private Year Annual Acceptance Rate Reported: 1993 Alternative Landfill Name: Design Capacity (tons): City: Roseboro Acres Currently Landfilled (acres): County: Sampson Average Depth (feet): State: NC Waste-in-Place (tons): 1,156,975 1974 Year Open: 1998 Waste-in-Place (tons): 1,207,279 Year Closed: 1997 **B. LANDFILL GAS COLLECTION** Estimated Methane Generation (mmscf/d): 0.73 LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Unknown Utilization System Type: Unknown Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) 2 Estimated Potential Capacity: 23 Current Capacity: Planned Capacity: Carolina Power & Light Company; Central Electric Member Corp; Four County Elec Member Corp; S Utilities in County: D. ENVIRONMENTAL BENEFITS OF UTILIZATION Potential Current Methane Reduction (tons/yr): 4,202 0 CO2 Equivalent of CH4 Reduction (tons/yr): 88,240 0 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr) Coal: 18,153 115 12,654 115 Fuel Oil: 14,899 96 10,386 61 Natural Gas: 10.019 0 6,983 0 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: Dave Cradduck Terry Gautney Mailing Address: P.O. Box 2096 Route 1, Box 586-B Phone Number: 910-525-4132 919-525-4132

* Itallicized indicates values estimated by EPA. December 5, 1998 State: NC Page: 38



Surry County LF 1 Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: Surry County Annual Acceptance Rate (tons): 52,260 Landfill Owner Type: Public Year Annual Acceptance Rate Reported: 1993 Alternative Landfill Name: Surry County Mt. Airy LF Design Capacity (tons): City: Mt. Airy Acres Currently Landfilled (acres): County: Surry Average Depth (feet): State: NC Waste-in-Place (tons): 1,243,631 Year Open: 1972 1998 Waste-in-Place (tons): 1,343,123 Year Closed: 2002 **B. LANDFILL GAS COLLECTION** Estimated Methane Generation (mmscf/d): 0.76 LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Unknown Utilization System Type: Unknown Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) 2 Estimated Potential Capacity: 24 Current Capacity: Planned Capacity: Duke Power Co; Surry-Yadkin Elec Member Corp; Tennessee Valley Authority Utilities in County: D. ENVIRONMENTAL BENEFITS OF UTILIZATION Potential Current Methane Reduction (tons/yr): 4,403 0 CO2 Equivalent of CH4 Reduction (tons/yr): 92,459 0 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr) Coal: 18,943 120 13,259 121 Fuel Oil: 15,547 100 10,882 63 Natural Gas: 10,454 0 0 7,317 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: Jerry Snow Jerry Snow Mailing Address: PO Box 706 PO Box 706 Phone Number: 910-374-5745 919-374-5745

* Itallicized indicates values estimated by EPA. December 5, 1998 State: NC Page: 39



US Marine Corps Camp Lejeune Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: U.S. Marine Corps Annual Acceptance Rate (tons): 46,533 Landfill Owner Type: Public Year Annual Acceptance Rate Reported: 1993 Alternative Landfill Name: Design Capacity (tons): City: Jacksonville Acres Currently Landfilled (acres): County: Onslow Average Depth (feet): State: NC Waste-in-Place (tons): 1.299.515 Year Open: 1978 1998 Waste-in-Place (tons): 1,231,119 Year Closed: 1995 **B. LANDFILL GAS COLLECTION** Estimated Methane Generation (mmscf/d): 0.73 LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Unknown Utilization System Type: Unknown Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) 2 Estimated Potential Capacity: 23 Current Capacity: Planned Capacity: Carolina Power & Light Company; Carteret-Craven El Member Corp; Jones-Onslow Elec Member C Utilities in County: D. ENVIRONMENTAL BENEFITS OF UTILIZATION Potential Current Methane Reduction (tons/yr): 4,237 0 CO2 Equivalent of CH4 Reduction (tons/yr): 88.981 0 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr) Coal: 18,153 115 12,760 116 Fuel Oil: 14,899 96 10,473 61 Natural Gas: 10.019 0 0 7,042 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: , Commanding General Mailing Address: US Marine Corps Camp Lejeune **MCB** PSC Box 20004 Phone Number: 910-451-5878 919-451-5003

* Itallicized indicates values estimated by EPA. December 5, 1998 State: NC Page: 40



Union County LF Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: **Union County** Annual Acceptance Rate (tons): 84,001 Landfill Owner Type: Public Year Annual Acceptance Rate Reported: 1993 Alternative Landfill Name: Design Capacity (tons): City: Monroe Acres Currently Landfilled (acres): County: Union Average Depth (feet): State: NC Waste-in-Place (tons): 2,130,144 Year Open: 2,300,557 1972 1998 Waste-in-Place (tons): Year Closed: **B. LANDFILL GAS COLLECTION** 1.01 Estimated Methane Generation (mmscf/d): LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Potential Utilization System Type: Unknown Utilization System Start Year:

Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s):

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) 3

Estimated Potential Capacity: Current Capacity:

Planned Capacity:

Utilities in County:

Duke Power Co; Monroe Electric Dept; Pee Dee Electric Member Corp; Southeastern Power Admin;

Landfill Operator

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D. ENVI	RONMENTAL BENEFI	TS OF UTILIZATION		
	Pote	ential	Curre	ent
Methane Reduction (tons/yr):		5,819		0
CO2 Equivalent of CH4 Reduction (tons/yr):		122,193		0
Emissions Avoided by Fossil Fuel Displacement:	Electricity Gener	ration Project	Direct Use	Project
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
Coal:	24,468	155	17,522	159
Fuel Oil:	20,082	129	14,381	84
Natural Gas:	13,503	0	9,670	0
	E. CONTACT INFOR	MATION		

	Editoriii Owner	Landini Operator
Contact Name:	Mike Shalati	Mike Shalati
Mailing Address:	PO Box 987	PO Box 987
	Union County Public Works	Union County Public Works
Phone Number:	704-283-3819	704-283-3819
Fax Number:		

Landfill Owner

^{*} Itallicized indicates values estimated by EPA. December 5, 1998 State: NC Page: 41



Wake County LF 2 Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: Wake County Annual Acceptance Rate (tons): 119,382 Landfill Owner Type: Year Annual Acceptance Rate Reported: 1993 Alternative Landfill Name: Wake County South LF Design Capacity (tons): City: Acres Currently Landfilled (acres): Raleigh County: Wake Average Depth (feet): State: NC Waste-in-Place (tons): 1,786,691 Year Open: 1984 1998 Waste-in-Place (tons): 2,061,567 Year Closed: 2003 **B. LANDFILL GAS COLLECTION** 0.95 Estimated Methane Generation (mmscf/d): LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Unknown Utilization System Type: Unknown Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) Estimated Potential Capacity: 3 30 Current Capacity: Planned Capacity: Apex Lighting Dept; Carolina Power & Light Company; Duke Power Co; Southeastern Power Admin Utilities in County: D. ENVIRONMENTAL BENEFITS OF UTILIZATION Potential Current Methane Reduction (tons/yr): 5,465 0 CO2 Equivalent of CH4 Reduction (tons/yr): 114,771 0 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr) Coal: 23,678 150 16,458 150 Fuel Oil: 79 19,434 125 13,508 Natural Gas: 0 9,083 0 13.068 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: Phil Carter Phil Carter Mailing Address: PO Box 550 PO Box 550 Solid Waste Department Phone Number: 919-856-6186 919-856-6186

* Itallicized indicates values estimated by EPA. December 5, 1998 State: NC Page: 42



			Wake County Landfi	11		Landfill Category:	Current
		A. G	ENERAL LANDFILL INFO)RMAT	ION		
Landfill Owner:			Annu	al Accept	tance Rate ((tons):	
Landfill Owner Type:	Public					Rate Reported:	1998
Alternative Landfill Na	me:				ty (tons):		
City:	Raleigh	ı	_	-	y Landfille	d (acres):	
County:				ge Depth		. (
State:	NC				n-Place (ton	e).	
Year Open:	110				-Place (ton	•	
Year Closed:			1990	wasie-in	-1 iace (ion.	3).	
Teal Closed.		I	B. LANDFILL GAS COLLE	CTION			
F.C. (IM.)			SELL OF THE GIAN COLLET	2011011			
Estimated Methane Gen		t/d):					
LFG Collection System							
Current LFG Collected				1.4			
Collection and Treatme	nt System Requ			No			
			C. LANDFILL GAS UTILIZ	ZATION			
Current Utilization:							
Utilization System	Status:	Operational					
Utilization System	Type:	Boiler					
Utilization System	Start Year:	1997					
Electric Utility Pro							
Natural Gas Provid							
Energy Purchaser(* *	Mallinckrod	t Chemical				
zmergy r dremaser (٠,٠		· chemical				
Capacity:		Electrici	ty Generation Project (MW)	C	OR	Direct Use Project (mmBtu/hr)	
Estimated Potentia	ıl Capacity:						
Current Capacity:							29
Planned Capacity:							
Utilities in County:							
		D FNVII	RONMENTAL BENEFITS (OF LITH	IZATION	I	
		D. EAVI			LIZATION		
			Potentic	ıl		Current	
Methane Reduction (ton							
CO2 Equivalent of CH4	Reduction (to	ıs/yr):					
Emissions Avoided by F	Saggil Fuel Digg	Jaamanti	Floatwiaity Community	n Proise		Direct Use Project	
Emissions Avoided by F	ossii ruei Disp	пасетені:	Electricity Generation) (4 ()
			CO2 (tons/yr)	SO2 (tor	ıs/yr)	CO2 (tons/yr) $SO2$? (tons/yr)
		Coal:					
		Fuel Oil:					
	N	atural Gas:					
			E. CONTACT INFORMA	TION			
		Landfill	Owner			Landfill Operator	
Contact Name:							
Mailing Address:							
Mailing Address:							
Phone Number:				919-8	56-6186		
Fax Number:							



Wayne County LF Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: Annual Acceptance Rate (tons): 92,545 Landfill Owner Type: Public Year Annual Acceptance Rate Reported: 1993 Alternative Landfill Name: Design Capacity (tons): City: Dudley Acres Currently Landfilled (acres): County: Wayne Average Depth (feet): State: NC Waste-in-Place (tons): 2,416,380 Year Open: 1973 1998 Waste-in-Place (tons): 2,617,745 Year Closed: 2012 **B. LANDFILL GAS COLLECTION** 1.09 Estimated Methane Generation (mmscf/d): LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Unknown Utilization System Type: Unknown Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) Estimated Potential Capacity: 3 34 Current Capacity: Planned Capacity: Carolina Power & Light Company; Fremont Light & Water Dept; Pikeville Electric Dept; Pitt & Gree Utilities in County: D. ENVIRONMENTAL BENEFITS OF UTILIZATION Potential Current Methane Reduction (tons/yr): 6,288 0 CO2 Equivalent of CH4 Reduction (tons/yr): 132.042 0 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr) Coal: 26,835 170 18,935 172 Fuel Oil: 91 22,025 142 15,541 Natural Gas: 0 0 14,810 10,450 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: Dan McGraw, Solid Waste Manager Lloyd Cook Mailing Address: 460 B South Landfill Road 115 South William Street Phone Number: 919-689-2994 919-689-2994

* Itallicized indicates values estimated by EPA. December 5, 1998 State: NC Page: 44



			Wilder's Grove L			Landfill Categor	y: Current
		A. G	ENERAL LANDFILL I	NFORMAT	ION		
Landfill Owner:			A	nnual Accept	tance Rate (tons)	:	268,428
Landfill Owner Type:	Public		Y	ear Annual A	Acceptance Rate	Reported:	1993
Alternative Landfill N	ame: City of	Raleigh LF	D	esign Capaci	ty (tons):		
City:	Raleigh	1	A	cres Currentl	y Landfilled (acı	res):	125
County:	Wake		A	verage Depth	ı (feet):		100
State:	NC		1	994 Waste-ir	n-Place (tons):		4,535,930
Year Open:	1972		19	998 Waste-in	-Place (tons):		5,607,790
Year Closed:	2002						
]	B. LANDFILL GAS CO	LLECTION			
Estimated Methane Ge	eneration (mmsc	f/d):		1.85			
LFG Collection System	-		Оре	erational			
Current LFG Collected			•	2.0			
Collection and Treatm		uired Under NSF	PS/EG:	No			
	, <u>, , , , , , , , , , , , , , , , , , </u>		C. LANDFILL GAS UT	ILIZATION			
Current Utilization:							
Utilization System	n Status:	Operational					
Utilization System		Boiler					
Utilization System		1995					
Electric Utility Pr		1,,,,					
Natural Gas Prov							
Energy Purchase	` '	Ajinomoto U	ISA Inc				
Energy Turenaser	(5).	rijinomoto	, or i, inc.				
Capacity:		Electrici	ty Generation Project (M	W) C	DR Dir	ect Use Project (mmBtu	/hr)
Estimated Potent	ial Capacity:			6			58
Current Capacity	:						42
Planned Capacity	:						
Utilities in County:		Apex Lightin	ng Dept; Carolina Power	& Light Com	pany; Duke Pow	er Co; Southeastern Pov	ver Admin
-		D. ENVIR	RONMENTAL BENEFI	TS OF UTII	LIZATION		
				ential		Current	
 Methane Reduction (to	mc/vr)·		1 010	ennun	10,709	Current	7,709
CO2 Equivalent of CH	• .	nchir).		,	224,897		161,885
CO2 Equivalent of CI	14 Reduction (10)	113/ y1).			224,077		101,003
Emissions Avoided by	Fossil Fuel Disp	olacement:	Electricity Gene	ration Projec	rt	Direct Use Proj	ect
			CO2 (tons/yr)	SO2 (tor	ıs/yr)	CO2 (tons/yr)	SO2 (tons/yr)
		Coal:	45,778		289	32,250	293
		Fuel Oil:	37,573		242	26,469	154
			31,313		242	20,409	154
	N	latural Gas:	25,264		0	17,798	0
			E. CONTACT INFOR	MATION			
		Landfill	Owner		L	andfill Operator	
Contact Name:	Jimmy Johnson	n		Jimm	y Johnson		
Mailing Address:	PO Box 590			P∪ B	ox 590		
Maning Address.	1 O DOX 370			1000	JA J / U		
Dhono Numbarr					• • • • • • • • • • • • • • • • • • • •		
Phone Number:	919-831-6890			919-8	31-6890		
Fax Number:							
* Itallicized indicates v	aluas astimatad	la. EDA	Dag	ember 5 199	0	State: NC Pa	ge: 45



Wilson County LF Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: Wilson County Annual Acceptance Rate (tons): 123,875 Landfill Owner Type: Public Year Annual Acceptance Rate Reported: 1993 Alternative Landfill Name: Design Capacity (tons): City: Wilson Acres Currently Landfilled (acres): County: Wilson Average Depth (feet): State: NC Waste-in-Place (tons): 2,826,258 Year Open: 1973 1998 Waste-in-Place (tons): 2,826,259 Year Closed: 1996 **B. LANDFILL GAS COLLECTION** Estimated Methane Generation (mmscf/d): 1 14 LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Unknown Utilization System Type: Unknown Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Wrangler Corp. Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) Estimated Potential Capacity: 4 36 Current Capacity: Planned Capacity: Black Creek Electric Dept; Carolina Power & Light Company; Edgecombe-Martin County EMC; Luc Utilities in County: D. ENVIRONMENTAL BENEFITS OF UTILIZATION Potential Current Methane Reduction (tons/yr): 6,596 0 CO2 Equivalent of CH4 Reduction (tons/yr): 138,518 0 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr) Coal: 28,414 180 19,863 181 Fuel Oil: 23,321 150 16,303 95 Natural Gas: 15.681 0 10,962 0 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: Steve Clayton, WCAC&LEC Marvin Mercer Mailing Address: PO Box 1728 1900 Goldshore Street Phone Number: 919-399-2823 919-399-2823

* Itallicized indicates values estimated by EPA. December 5, 1998 State: NC Page: 46



Yancey/Mitchell County LF A. GENERAL LANDFILL INFORMATION Landfill Owner: Yancey County Annual Acceptance Rate (tons): Landfill Owner Type: Public Year Annual Acceptance Rate Reported:	Candidate
Landfill Owner: Yancey County Annual Acceptance Rate (tons):	
Landfill Owner Type: Public Year Annual Acceptance Rate Reported:	
	1993
Alternative Landfill Name: Design Capacity (tons):	
City: Acres Currently Landfilled (acres):	6
County: Yancey Average Depth (feet):	50
State: NC 1998 Waste-in-Place (tons):	384,804
Year Open: 1973 1998 Waste-in-Place (tons):	384,804
Year Closed: 1994	
B. LANDFILL GAS COLLECTION	
Estimated Methane Generation (mmscf/d): 0.14	
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG: No	
C. LANDFILL GAS UTILIZATION	
Current Utilization:	
51 · · · · · · · · · · · · · · · · · · ·	
Utilization System Start Year:	
Electric Utility Provider(s):	
Natural Gas Provider(s):	
Energy Purchaser(s):	
Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr	•)
Estimated Potential Capacity: 0	4
Current Capacity:	
Planned Capacity:	
Utilities in County: Carolina Power & Light Company; French Broad Elec Member Corp; Tennessee Valley Auth	•,
D. ENVIRONMENTAL BENEFITS OF UTILIZATION	ority
	ority
	ority
Potential Current	
Methane Reduction (tons/yr): 786	0
Methane Reduction (tons/yr):786CO2 Equivalent of CH4 Reduction (tons/yr):16,512	0 0
Methane Reduction (tons/yr): 786 CO2 Equivalent of CH4 Reduction (tons/yr): 16,512 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project	0 0
Methane Reduction (tons/yr): 786 CO2 Equivalent of CH4 Reduction (tons/yr): 16,512 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project CO2 (tons/yr) Direct Use Project CO2 (tons/yr)	0 0
Methane Reduction (tons/yr): 786 CO2 Equivalent of CH4 Reduction (tons/yr): 16,512 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project CO2 (tons/yr) Direct Use Project CO2 (tons/yr) Coal: 3,157 20 2,368	0 0 0 2 (tons/yr) 22
Methane Reduction (tons/yr): 786 CO2 Equivalent of CH4 Reduction (tons/yr): 16,512 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project CO2 (tons/yr) Direct Use Project CO2 (tons/yr) Coal: 3,157 20 2,368 Fuel Oil: 2,591 17 1,943	0 0 2 (tons/yr) 22 11
Methane Reduction (tons/yr):786CO2 Equivalent of CH4 Reduction (tons/yr):16,512Emissions Avoided by Fossil Fuel Displacement:Electricity Generation Project CO2 (tons/yr)Direct Use Project CO2 (tons/yr)Coal:3,157202,368Fuel Oil:2,591171,943Natural Gas:1,74201,307	0 0 0 2 (tons/yr) 22
Methane Reduction (tons/yr):786CO2 Equivalent of CH4 Reduction (tons/yr):16,512Emissions Avoided by Fossil Fuel Displacement:Electricity Generation Project CO2 (tons/yr)Direct Use Project CO2 (tons/yr)Coal:3,157202,368Fuel Oil:2,591171,943Natural Gas:1,74201,307	0 0 2 (tons/yr) 22 11
Methane Reduction (tons/yr): 786 CO2 Equivalent of CH4 Reduction (tons/yr): 16,512 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project CO2 (tons/yr) Direct Use Project CO2 (tons/yr) Coal: 3,157 20 2,368 Fuel Oil: 2,591 17 1,943 Natural Gas: 1,742 0 1,307 E. CONTACT INFORMATION Landfill Owner Landfill Operator	0 0 2 (tons/yr) 22 11
Methane Reduction (tons/yr):786CO2 Equivalent of CH4 Reduction (tons/yr):16,512Emissions Avoided by Fossil Fuel Displacement:Electricity Generation Project CO2 (tons/yr)Direct Use Project CO2 (tons/yr)Coal:3,157202,368Fuel Oil:2,591171,943Natural Gas:1,74201,307	0 0 2 (tons/yr) 22 11
Methane Reduction (tons/yr): 786 CO2 Equivalent of CH4 Reduction (tons/yr): 16,512 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project CO2 (tons/yr) Direct Use Project CO2 (tons/yr) Coal: 3,157 20 2,368 Fuel Oil: 2,591 17 1,943 Natural Gas: 1,742 0 1,307 E. CONTACT INFORMATION Landfill Owner Landfill Operator	0 0 2 (tons/yr) 22 11
Methane Reduction (tons/yr): 786 CO2 Equivalent of CH4 Reduction (tons/yr): 16,512 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project CO2 (tons/yr) Direct Use Project CO2 (tons/yr) Coal: 3,157 20 2,368 Fuel Oil: 2,591 17 1,943 Natural Gas: 1,742 0 1,307 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: H.D. Miller Earl Tipton	0 0 2 (tons/yr) 22 11
Methane Reduction (tons/yr): 786 CO2 Equivalent of CH4 Reduction (tons/yr): 16,512 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project CO2 (tons/yr) Direct Use Project CO2 (tons/yr) Coal: 3,157 20 2,368 Fuel Oil: 2,591 17 1,943 Natural Gas: 1,742 0 1,307 E. CONTACT INFORMATION Contact Name: H.D. Miller Earl Tipton Mailing Address: Yancey County Courthouse Room 11	0 0 2 (tons/yr) 22 11
Methane Reduction (tons/yr): 786 CO2 Equivalent of CH4 Reduction (tons/yr): 16,512 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project CO2 (tons/yr) Direct Use Project CO2 (tons/yr) Coal: 3,157 20 2,368 Fuel Oil: 2,591 17 1,943 Natural Gas: 1,742 0 1,307 E. CONTACT INFORMATION Contact Name: H.D. Miller Earl Tipton Mailing Address: Yancey County Courthouse Room 11	0 0 2 (tons/yr) 22 11

